

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	407	(544/92,94).ccls.	US-PGPUB; USPAT	OR	OFF	2007/03/06 10:21

 **PALM INTRANET**Day : Tuesday
Date: 3/6/2007
Time: 10:19:38

Inventor Information for 10/518324

Inventor Name	City	State/Country
TAYLOR, ERIC DEGUYON	NEWARK	DELAWARE

Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity/Reexam	Foreign I
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Search Another: Application# Search or Patent# Search

PCT / / Search or PG PUBS # Search

Attorney Docket # Search

Bar Code # Search

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)

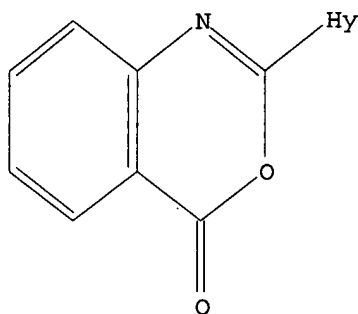


ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
8-12 10-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
exact/norm bonds :
5-7 6-10 7-8 8-9 8-12 9-10 10-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:Atom
Element Count :
Node 12: Limited
C,C3-5
N,N1-2

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 14:13:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 472 TO ITERATE

100.0% PROCESSED 472 ITERATIONS
SEARCH TIME: 00.00.01

8 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8137 TO 10743
PROJECTED ANSWERS: 8 TO 329

Habte

03/06/2007

L2 8 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 14:13:44 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 9173 TO ITERATE

100.0% PROCESSED 9173 ITERATIONS
SEARCH TIME: 00.00.01

242 ANSWERS

L3 242 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 14:13:50 ON 26 FEB 2007

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FILE COVERS 1907 - 26 Feb 2007 VOL 146 ISS 10

FILE LAST UPDATED: 25 Feb 2007 (20070225/ED)

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<http://www.cas.org/infopolicy.html>

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L4 79 L3

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L4 ANSWER 1 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2007:51872 CAPLUS

DOCUMENT NUMBER: 146:163116

TITLE: Preparation of N-thio-anthranilamide compounds and their use as pesticides
 INVENTOR(S): Schmidt, Thomas; Puhl, Michael; Dickhaut, Joachim; Bastiaens, Henricus Maria Martinus; Rack, Michael; Culbertson, Deborah L.; Anspaugh, Douglas D.; Braun, Franz-Josef; Bucci, Toni; Corder, Henry Van Tuyt; Kuhn, David G.; Oloumi-Sadeghi, Haassen

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 231pp.

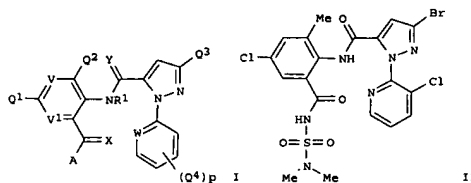
CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007006670	A1	20070118	WO 2006-EP63761	20060630
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BM, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPL. INFO.: US 2005-697166P P 20050707

GI



II

L4 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2006:1173505 CAPLUS

DOCUMENT NUMBER: 145:489257

TITLE: Preparation of pyrrolylcarbonyl anthranilamides as pest control agents
 INVENTOR(S): Koyanagi, Toru; Morita, Masayuki; Ueki, Toshihiko
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
 SOURCE: PCT Int. Appl., 50pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

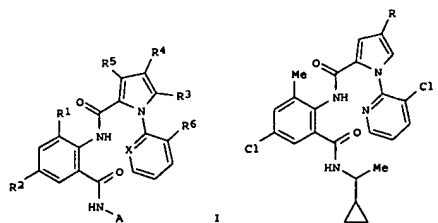
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006118267	A1	20061109	WO 2006-JP309025	20060428
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPL. INFO.: JP 2005-134582 A 20050502

JP 2006-69614 A 20060314

OTHER SOURCE(S): MARPAT 145:489257

GI



I

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AB Title compds. I [R1 = halo or alkyl; R2 - R5 = H, halo, alkyl, etc.; R6 = halo or (halo)alkyl; A = H, (un)substituted alkyl, etc.; X = N or

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L4 ANSWER 1 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

AB N-thio-anthranilamide compds. I [A is a substituted amino sulfoxide or imino sulfoxide; R1 is H, substituted alkyl, alkenyl, or cycloalkyl; Q1 and Q2 are independently H, halogen, CN, SCN, nitro, OH, halogen-(un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, alkylthio, alkylsulfanyl, alkylsulfonyl, alkylsulfonyloxy, alkylamino, cycloalkylamino, alkylcarbonyl, alkoxy carbonyl, alkylaminocarbonyl, or alkylsilyl; Q3 is halogen-(un)substituted alkyl, alkenyl, alkynyl, or cycloalkyl; Q4 is halogen, CN, nitro, OH, COOH, CONH2, halogen-(un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, alkylthio, alkylsulfanyl, alkylsulfonyl, alkylsulfonyloxy, alkylamino, cycloalkylamino, alkylcarbonyl, or alkoxy carbonyl; X and Y are independently O or S; W is N, CH, or CQ4; V and V1 are independently N or CQ4; p is 0-4] were prepared and used for the control of insects,

acarids or nematodes, and in methods for treating, controlling, preventing or protecting animals against infestation or infection by parasites.

Compds. of formula I and compns. comprising them can also be used for controlling and preventing infestations and infections in animals including warm-blooded animals (including humans) and fish. Thus, anthranilamide

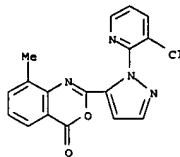
II was prepared and tested as a pesticide.

IT 920336-54-5

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of N-thio-anthranilamide compds. and their use as pesticides)

RN 920336-54-5 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

(un)substituted CH, with limitations) or their N-oxides and salts were prepd. as pest control agents. Thus, cyclization of

1-(3-chloropyridin-2-yl)-4-bromopyrrole-2-carboxylic acid, which was obtained from pyrrole and 2,3-dichloropyridine, with 5-chloro-3-methylanthranilic acid in the presence of methanesulfonyl chloride followed by ring-opening of the resultant benzoxazine with α -methylcyclopropylmethanamine gave II (R = Br). Its chloro analog II (R = Cl) showed $\geq 90\%$ control against *Prodenia litura* at a concn. of 12.5 ppm.

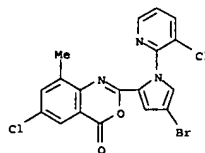
IT 914457-23-1P 914457-29-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrrolylcarbonyl anthranilamides as pest control agents via

ring-opening of pyrrolylbenzoxazine with amines)

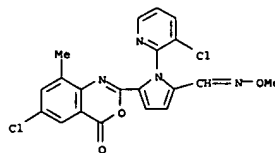
RN 914457-23-1 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-[4-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrrol-2-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



RN 914457-29-7 CAPLUS

CN 1H-Pyrrole-2-carboxaldehyde, 5-(6-chloro-8-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-1-(3-chloro-2-pyridinyl)-, 2-(O-methoxyime) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

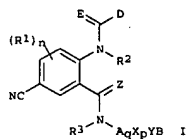
FORMAT

03/06/2007

L4 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2006:1120573 CAPLUS
 DOCUMENT NUMBER: 145:455006
 TITLE: Preparation of cyanoanthranilamides as insecticides and acaricides
 INVENTOR(S): Jeanguenat, Andre; O'Sullivan, Anthony; Muehlebach, Michel; Trah, Stephan; Hall, Roger Graham
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 100pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006111341	A1	20061026	WO 2006-EP3504	20060418
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			GB 2005-7989	A 20050420
			GB 2005-25060	A 20051208

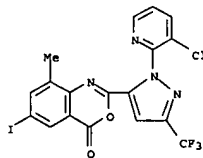
OTHER SOURCE(S): MARPAT 145:455006
 GI



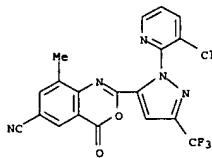
AB Title compds. [I; E, Z = O, S; A = (substituted) alkylene, alkenylene, alkynylene, bivalent mono- or bicyclic ring; X = O, NH, alkylimino; Y = (substituted) mono- or bicyclic ring; p, q = 0, 1; B = (substituted) 3-4

L4 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

L4 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 membered (heterocyclic) ring; R1 = halo, NO2, cyano, OH, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, (substituted) Ph, PhCH2, PhO, etc.; n = 0-3; R2, R3 = H, alkyl, alkenyl, alkynyl, substituted cycloalkyl; O = (substituted) Ph, pyridyl, pyrrolyl, pyrazolyl, pyrimidyl, were prepd. Thus, 2-[2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-yl]-8-methyl-4-oxo-4H-benzo[d][1,3]oxazine-6-carbonitrile, bicycloprop-1-ylamine hydrochloride (prepn. given), and Et3N were heated together in THF at 60° for 8 h to give 2-[3-chloropyridin-2-yl]-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid [2-(bicycloprop-1-ylcarbonyl)-4-cyano-6-methylphenyl]amide. The latter at 400 ppm showed >80% activity against *Cydia pomonella*.
 IT 500028-90-0 736995-60-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 RN (preparation of cyanoanthranilamides as insecticides and acaricides)
 CN 500028-90-0 CAPLUS
 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)

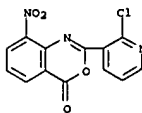


RN 736995-60-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)

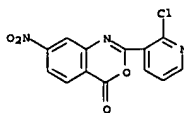


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2006:1048454 CAPLUS
 DOCUMENT NUMBER: 146:38411
 TITLE: QSAR study of antiplatelet agents
 AUTHOR(S): Matritsky, Alan R.; Pacureanu, Liliana M.; Slavov, Svetoslav; Dobchev, Dimitar A.; Karelson, Mati
 CORPORATE SOURCE: Center for Heterocyclic Compounds, Department of Chemistry, University of Florida, Gainesville, FL, 32611, USA
 SOURCE: Bioorganic & Medicinal Chemistry (2006), 14(22), 7490-7500
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A QSAR methodol. that involves multilinear (Hansch-type) and nonlinear (ANN back propagation) approaches was developed to correlate the antiplatelet activity of 60 benzoxazinone derivs. against factor Xa. The statistical characteristics provided by multilinear model (R2 = 0.821) indicated satisfactory stability and predictive ability, while the ANN predictive ability is somewhat superior (R2 = 0.909). The multilinear model provided insight into the main factors that modulate the inhibitory activity of the investigated compds.
 IT 916481-14-6 916481-15-7
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 RN (QSAR study of antiplatelet agents)
 CN 916481-14-6 CAPLUS
 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-8-nitro- (CA INDEX NAME)



RN 916481-15-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-7-nitro- (CA INDEX NAME)



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

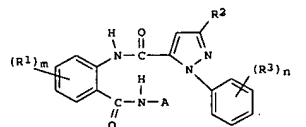
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L4 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

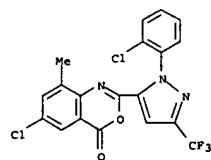
L4 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:768139 CAPLUS
 DOCUMENT NUMBER: 145:211038
 TITLE: Preparation of pyrazolyl moiety-containing anthranilamide compounds as pest control agents
 INVENTOR(S): Koyanagi, Toru; Yokeda, Tetsuo; Higuchi, Koji; Kiriya, Kazuhisa; Taguchi, Yohei; Yamamoto, Taku
 PATENT ASSIGNEE(S): Iseihara Sanyo Kaisha, Ltd., Japan
 SOURCE: PCT Int. Appl., 81pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006080311	A1	20060803	WO 2006-JP301057	20060124
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM JP 2006232814 A 20060907 JP 2006-12161 20060120 PRIORITY APPLN. INFO.: JP 2005-17358 A 20050125 OTHER SOURCE(S): MARPAT 145:211038 GI				

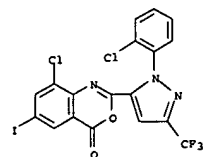


AB The title compds. I [R1 = halo, alkyl, alkenyl, etc.; R2 = H, halo, alkyl, etc.; R3 = halo, alkyl, alkoxy, etc.; A = alkyl substituted by Y; Y = cycloalkyl which may be substituted by at least one substituent selected from the group consisting of halo, alkyl and haloalkyl; m = 0 - 4; n = 0

L4 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 5) are prepd. Thus,
 N-(4-chloro-2-[[[(1-cyclopropylethyl)amino]carbonyl]-6-methylphenyl]-1-(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide was prepd. from 1-cyclopropylethylamine hydrochloride and 6-chloro-2-[1-(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. Comps. of this invention at 50 ppm gave ≥ 90% kill of Spodoptera litura larvae.
 IT 904733-67-1 904733-69-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of pyrazolyl moiety-containing anthranilamide compds. as pest control agents)
 RN 904733-67-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 904733-69-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-[1-(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:630314 CAPLUS
 DOCUMENT NUMBER: 145:57521
 TITLE: Insecticidal and acaricidal mixtures comprising a pyrazolecarboxamide derivative
 INVENTOR(S): Annan, Isaac Billy; Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin
 PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Company, USA
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

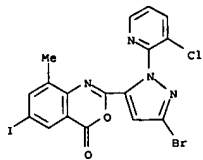
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006068669	A1	20060629	WO 2005-US26116	20050722
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM AU 2005319651 A1 20060629 AU 2005-319651 20050722 CA 2568560 A1 20060629 CA 2005-2568560 20050722 PRIORITY APPLN. INFO.: US 2004-591239P P 20040726 US 2005-690007P P 20050613 WO 2005-US26116 W 20050722				

OTHER SOURCE(S): MARPAT 145:57521
 AB Disclosed are insecticidal and acaricidal mixts. relating to combinations comprising 3-bromo-N-(4-cyano-2-methyl-6[(methylamino)carbonyl]phenyl)-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide (preparation given), an N-oxide, or a salt thereof, and at least one invertebrate pest control agent selected from neonicotinoids, cholinesterase inhibitors, sodium channel modulators, chitin synthesis inhibitors, acetylcholine agonists, lipid biosynthesis inhibitors, macrocyclic lactones, GABA-regulated chloride channel blockers, juvenile hormone mimics, ryanodine receptor ligands, octopamine receptor ligands, mitochondrial electron transport inhibitors, nereistoxin analogs, pyridalyl, flonicamid, pymetrozine, dieltrin, metaflumizone, biol. agents, and salts of the foregoing. Target species include Bemisia argentifolii, Frankliniella occidentalis, Empoasca fabae, Peregrinus maidis, Aphis gossypii, Myzus persicae and Plutella xylostella.
 IT 736995-63-4P 736995-64-5P
 RL: RCT (Reactant); EPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate in preparation of insecticidal and acaricidal pyrazolecarboxamide derivative)
 RN 736995-63-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-[1-(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo- (9CI) (CA INDEX NAME)

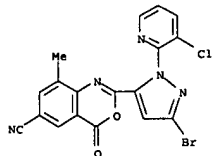
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L4 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
yl)-6-iodo-8-methyl- (9CI) (CA INDEX NAME)



RN 736995-64-5 CAPLUS
CN 4H-3,1-Benzoxazine-6-carbonitrile,
2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-
pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)



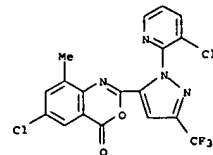
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
N-21, S or G1-C(G2)-G3; G1 and G3 are independently a bond, O, S, or
NZ2;
G2 is O, S or NZ3; Z and Z1-Z3 are independently H, C1-6 (halo)alkyl,
C2-6
(halo)alkenyl, C2-6 (halo)alkynyl, C3-6 (halo)cycloalkyl, C1-4
(halo)alkoxy, C1-4 (halo)alkylthio, etc.; Y3 is H, halo or C1-6
(halo)alkyl; Y1b is a bond, or (un)substituted C1-6 alkylene,
(un)substituted C2-6 alkenylene, or (un)substituted C3-6 alkynylene; and
their tautomers, agrochem. utilizable salts and auxiliary are claimed.
Example compd. 11 was prepd. by amidation of 6-chloro-2-[2-(3-
chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-yl]-8-
methylbenzo[d][1,3]oxazin-4-one with 1-amino-2-propanol; the resulting
2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-carboxylic acid
[4-chloro-2-(2-hydroxypropylcarbamoyl)-6-methylphenyl]amide underwent
substitution with thioacetic acid to give thioacetic acid

S-[2-(5-chloro-2-[(2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazole-
3-carbonyl)amino]-3-methylbenzoylamino)-1-methylethyl] ester, which
underwent deacetylation and methylation to give the corresponding Me thio
ether, which underwent oxidn. to give the corresponding sulfoxide, which
reacted with trifluoroacetamide to give the corresponding
N-trifluoroacetylated sulfoximide, which underwent deacetylation to give
compd. 11. All the invention compds. were evaluated for their
insecticidal activity. Some of the tested compds. showed good activity
against Aphis craccivora, Diabrotica balteata, Heliothis virescens
(application to foliar and egg), Myzus persicae (foliar and systemic
application), Plutella xylostella and Spodoptera littoralis.

IT 438450-40-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; preparation of anthranilamide deriva. as
insecticides)

RN 438450-40-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-
(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

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L4 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:558556 CAPLUS
DOCUMENT NUMBER: 145:62886
TITLE: Anthranilamide derivatives as insecticides, and their
preparation, pesticidal compositions and formulation
INVENTOR(S): Jeanguenat, Andre; O'Sullivan, Anthony Cornelius
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 136 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006061200	A1	20060615	WO 2005:EP13103	20051207
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			GB 2004-27008 A 20041209	
OTHER SOURCE(S):			MARPAT 145:62886	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

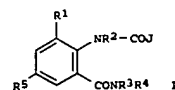
AB Compds. of formula I, and the agrochem. acceptable salts and all stereoisomers and tautomeric forms of the compds. of formula I can be used

as agrochem. active ingredients and can be prepared in a manner known per se. Several examples on formulation of compds. of formula I is also disclosed in this invention. Compds. of formula I wherein E1 and W2 are independently O or S; R1 is halo, CN, NO2, OH, C1-6 (halo)alkyl, C2-6 (halo)alkenyl, C2-6 (halo)alkynyl, C3-6 (halo)cycloalkyl, C1-4 (halo)alkoxy, C1-4 (halo)alkylthio, C1-4 (halo)alkylsulfinyl, C1-4 (halo)alkylsulfonyl, C1-4 alkylamino, C2-4 dialkylamino, C3-6 cycloalkylamino, etc.; n is 0, 1, 2, 3, or 4; R2 and R3 are independently H, (un)substituted C1-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, or (un)substituted C3-6 cycloalkyl; D is (un)substituted Ph, (un)substituted pyridyl, (un)substituted pyrazole, (un)substituted pyrrole, or (un)substituted pyrimidine; Y1a and Y2 are independently (un)substituted C1-6 alkylene, (un)substituted C2-6 alkenylene, or (un)substituted C3-6 alkynylene, etc.; G is a bond, O,

L4 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:496102 CAPLUS
DOCUMENT NUMBER: 144:462625
TITLE: Preparation of anthranilamide derivative insecticides and acaricides
INVENTOR(S): Lehm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin; Taggi, Andrew Edmund; Berezna, James Francis
PATENT ASSIGNEE(S): E.I. DuPont de Nemours and Co., USA
SOURCE: PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

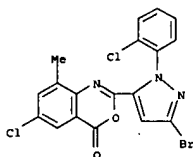
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006055922	A2	20060526	WO 2005-US42196	20051118
WO 2006055922	A3	20061221		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			US 2004-629120P P 20041118	
			US 2005-689414P P 20050610	
OTHER SOURCE(S):			MARPAT 144:462625	
GI				



AB The anthranilamide deriva. I and their geometric and stereoisomers, N-oxides, and salts [J = (un)substituted Ph or N-containing heterocyclyl]; R1 = alkyl, alkenyl, alkynyl, etc.; R2 = alkylcarbonyl, alkoxy carbonyl or (di)alkylaminocarbonyl; R3 = (cyclo)alkyl, alkenyl, alkynyl, alkoxy, etc.; R4 = (un)substituted alkylcycloalkyl, alkenylcycloalkyl, alkynylcycloalkyl, cycloalkylalkyl, cycloalkylalkenyl, cycloalkylalkynyl, cycloalkenylalkyl or alkylcycloalkenyl, oxiranylalkyl, thiranylalkyl, oxetanylalkyl, thietanylalkyl, 3-oxetanyl or 3-thietanyl; R5 =

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L4 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(cyclo)alkyl, haloalkyl, alkenyl alkynyl, etc.] are prepd. as pesticides
for controlling invertebrate pests, specifically insecticides and
acaricides.
IT 886583-61-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate in preparation of anthranilamide derivative
insecticides and
acaricides)
RN 886583-61-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[3-bromo-1-(2-chlorophenyl)-1H-pyrazol-5-yl]-6-
chloro-8-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:367128 CAPLUS
DOCUMENT NUMBER: 144:364548
TITLE: Preparation of anthranilamide derivative acaricides
and insecticides
INVENTOR(S): O'Sullivan, Anthony Cornelius; Hughes, Dave;
Jeanguenat, Andre; Muehlebach, Michel; Loiseleur,
Olivier
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 152 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

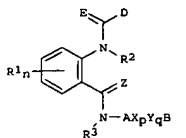
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006040113	A2	20060420	WO 2005-EP10891	20051010
WO 2006040113	A3	20060914		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

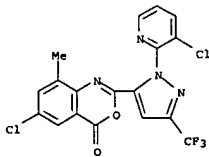
PRIORITY APPLN. INFO.: GB 2004-22556 A 20041011

OTHER SOURCE(S): MARPAT 144:364548
GI



AB The anthranilamides I [E, Z = O or S; A, Y = alkylene, alkenylene, alkynylene, etc.; X = O, NH or alkyl-substituted NH; B = (un)substituted ring; D = (un)substituted Ph, pyridyl, pyrazolyl, etc.; R1 = amino,

L4 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
formyl, cyanoalkenyl, etc.; R2, R3 = H, (un)substituted alkyl, alkenyl,
cycloalkyl, etc.; n = 0, 1-4; p, q = 0 or 1] and I salts, stereoisomers
and tautomers are prepd. as acaricides and insecticides.
IT 438450-40-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant in preparation of anthranilamide derivative acaricide and
insecticide)
RN 438450-40-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-
(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:193331 CAPLUS
DOCUMENT NUMBER: 144:274265
TITLE: Preparation of novel anthranilamides useful for
controlling invertebrate pests
Lehm, George Philip
INVENTOR(S):
PATENT ASSIGNEE(S): E.I. DuPont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006023783	A1	20060302	WO 2005-US29639	20050817

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

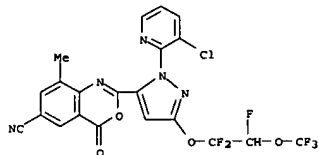
PRIORITY APPLN. INFO.: US 2004-602153P P 20040817
US 2005-643708P P 20050113

OTHER SOURCE(S): MARPAT 144:274265
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. I [Q = II-IV; R1 = X-Z-O-R11; X = O, S or NR12; Z = haloalkylene or haloalkenylene; R2 = H, alkyl, haloalkyl, etc.; R3 = H, alkyl, alkenyl, etc.; R4 = H, alkyl, alkenyl, etc.; R5 = OH, alkoxy, alkylamino, etc.; or NR4R5 = ring containing 2-6 carbon atoms and optionally one addnl. atom of N, S or O; R6, R7 = H, alkyl, alkenyl, etc.; W = N, CR2; V = N, CR13; Y = N, CR14; R11 = alkyl, alkenyl, cycloalkyl, etc.; R12 = H, alkyl; R13, R14 = H, alkyl, cycloalkyl, etc.; L = a direct bond or a linking chain of one or more members selected from C, N, O, S, etc.; n = 1-4], were prepared and claimed. E.g., a multi-step synthesis of V, starting from 3-chloro-2-hydrazinopyridine and di-Et maleate, was given. Compound V resulted in at least 80% mortality when tested against fall armyworm (Spodoptera frugiperda). Also disclosed are compns. containing the compds. I and methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biol. effective amount of a compound or a composition of the invention.

L4 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IT 877876-91-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of novel anthranilamides useful for controlling
 invertebrate
 pests)
 RN 877876-91-0 CAPLUS
 CN 4H-3,1-benzoxazine-6-carbonitrile, 2-[1-(3-chloro-2-pyridinyl)-3-[1,1,2-
 trifluoro-2-(trifluoromethoxy)ethoxy]-1H-pyrazol-5-yl]-8-methyl-4-oxo-
 (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

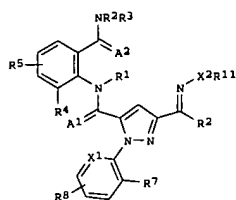
L4 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:11014 CAPLUS
 DOCUMENT NUMBER: 144:108313
 TITLE: Preparation of pyrazoloyl anthranilamides as
 pesticides.
 INVENTOR(S): Alig, Bernd; Fischer, Ruediger; Funke, Christian;
 Gering, R. F. Ernst; Henae, Achim; Krueger,
 Bernd-Wieland; Loesel, Peter; Arnold, Christian
 Bayer Cropscience A.-G., Germany
 PATENT ASSIGNEE(S):
 SOURCE: PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006000336	A2	20060105	WO 2005-EP6482	20050616
WO 2006000336	A3	20061214		
WO 2006000336	A9	20070201		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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 GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
 NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
 SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM,
 KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG,
 KZ, MD, RU, TJ, TM
 DE 102004031100 A1 20060112 DE 2004-102004031100 20040628
 PRIORITY APPLN. INFO.: DE 2004-102004031100A 20040628

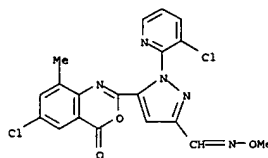
OTHER SOURCE(S): MARPAT 144:108313
 G1

L4 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB Title compds. [I: A1, A2 = O, S; X1 = N, CR10; X2 = NR11, O, C(R11)2; R1
 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R2 = H, alkyl,
 alkenyl, alkynyl, cycloalkyl, alkoxy, alkylamino, alkylcarbonyl, etc.; R3
 = H, R12, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; NR2R3 =
 atoms
 to form a ring; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl,
 alkoxy, halo, cyano, etc.; R5, R8 = H, halo, (substituted) alkyl,
 haloalkyl, haloalkoxy, R13, etc.; R7 = H, alkyl, cycloalkyl, haloalkyl,
 halo, alkylthio, alkylsulfinyl, haloalkylthio, etc.; R9 = H, alkyl,
 cycloalkyl, haloalkyl, alkoxy, alkylthio, etc.; R11 = H, (substituted)
 alkyl, alkenyl, alkynyl, cycloalkyl; R12 = (substituted) alkylthio,
 alkylsulfinyl, haloalkylthio, haloalkylsulfinyl, PhS, PhSO; R13 = amino,
 SH, SCN, trialkylsilyloxy, B(OR18)2, etc.; R18 = H, alkyl], were prepared
 Thus,
 5-(6-chloro-8-methyl-4H-benzo[d][1,3]oxazin-2-yl)-1-(3-chloropyridin-
 2-yl)-1H-pyrazole-3-carboxaldehyde O-methylxime (preparation given) was
 refluxed with isopropylamine in THF to give 1.57%
 2-(3-chloropyridin-2-yl)-
 5-(methoxyiminomethyl)-2H-pyrazole-3-carboxylic acid (4-chloro-2-
 isopropylcarbamoyl-6-methylphenyl)amide. The latter at 100 g/ha gave
 100%
 kill of Phaenon cochleariae on cabbage after 7 days.
 IT 872882-58-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of pyrazoloyl anthranilamides as pesticides)
 RN 872882-58-1 CAPLUS
 CN 1H-Pyrazole-3-carboxaldehyde,
 5-(6-chloro-8-methyl-4-oxo-4H-3,1-benzoxazin-
 2-yl)-1-(3-chloro-2-pyridinyl)-, 3-(O-methylxime) (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



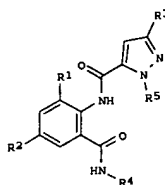
L4 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1314351 CAPLUS
 DOCUMENT NUMBER: 144:51574
 TITLE: Preparation of pyrazolylcarbonyl anthranilamides as insecticides
 INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul
 PATENT ASSIGNEE(S): E.I. DuPont De Nemours and Company, USA
 SOURCE: PCT Int. Appl., 52 pp.
 CODEN: PIXXD3
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005118552	A2	20051215	WO 2005-US12465	20050412
WO 2005118552	A3	20060126		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BM, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005250328	A1	20051215	AU 2005-250328	20050412
CA 2561369	A1	20051215	CA 2005-2561369	20050412
EP 1751112	A2	20070214	EP 2005-779580	20050412
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.: US 2004-561813 P 20040413				
WO 2005-US12465 W 20050412				

OTHER SOURCE(S): CASREACT 144:51574; MARPAT 144:51574
 GI

L4 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

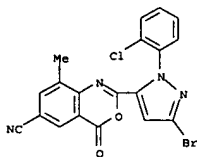


AB The title compds. I (R1 = Me, Cl, Br or I; R2 = Cl, Br, I or CN; R3 = Cl, Br, CF3, OCH2CF3 or OCF2H; R4 = H, alkyl, alkenyl or alkynyl (each optionally substituted with CN or SMe); R5 = Ph substituted with 1-3 substituents selected from F, Cl, Br and Me), useful for controlling an invertebrate pest, were prepared. E.g., a multi-step synthesis of I (R1 = Me; R2 = CN; R3 = Br; R4 = iso-Pr; R5 = 2-ClC6H4), starting from 2-chlorophenylhydrazine.HCl and glyoxylic acid, was given. Also disclosed are methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound (e.g., as a composition described herein). This invention also pertains to a composition for controlling an invertebrate pest comprising a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

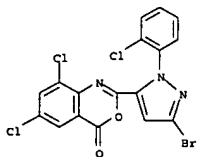
IT 871239-19-9P 871239-20-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrazolylcarbonyl anthranilamides as insecticides)

RN 871239-19-9 CAPLUS
 CN 4H-3,1-Benzoxazin-6-carbonitrile, 2-[3-bromo-1-(2-chlorophenyl)-1H-pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 871239-20-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(2-chlorophenyl)-1H-pyrazol-5-yl]-6,8-dichloro- (9CI) (CA INDEX NAME)

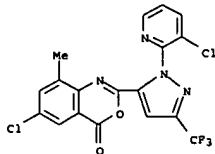


L4 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1084903 CAPLUS
 DOCUMENT NUMBER: 144:1613
 TITLE: Insecticidal anthranilic diamides: A new class of potent ryanodine receptor activators
 AUTHOR(S): Lahm, George P.; Selby, Thomas P.; Freudenberger, John
 H.; Stevenson, Thomas M.; Myers, Brian J.; Seburyano, Gilles; Smith, Ben K.; Flexner, Lindsey; Clark, Christopher E.; Cordova, Daniel
 CORPORATE SOURCE: DuPont Crop Protection, Stine-Haskell Research Center,
 Newark, DE, 19711, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(22), 4898-4906
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 144:1613
 AB A novel class of anthranilic diamides has been discovered with exceptional insecticidal activity on a range of Lepidoptera. These compds. have been found to exhibit their action by release of intracellular Ca2+ stores mediated by the ryanodine receptor. The discovery, synthesis, structure-activity, and biol. results are presented.

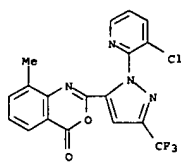
IT 438450-40-9P 500011-82-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (insecticidal activity of)

RN 438450-40-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 500011-82-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR
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FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

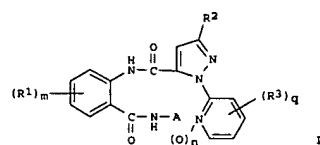
L4 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:902883 CAPLUS
DOCUMENT NUMBER: 143:229846
TITLE: Preparation of anthranilamides as pesticides
INVENTOR(S): Koyanagi, Toru; Morita, Masayuki; Nakamoto, Kenichi;
Hiramatsu, Akihiro
PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005077934	A1	20050825	WO 2005-JP2351	20050216
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RM:	BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2006131607	A	20060525	JP 2005-33829	20050210
JP 2006131608	A	20060525	JP 2005-33830	20050210
AU 2005212068	A1	20050825	AU 2005-212068	20050216
CA 2553715	A1	20050825	CA 2005-2553715	20050216
EP 1717237	A1	20061102	EP 2005-710251	20050216
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU			
PRIORITY APPLN. INFO.:			JP 2004-41295	A 20040218
			JP 2004-133722	A 20040428
			JP 2004-261507	A 20040908
			JP 2004-295778	A 20041008
			WO 2005-JP2351	W 20050216

OTHER SOURCE(S): MARPAT 143:229846
GI

L4 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title anthranilamides, i.e.
N-(2-aminocarbonylphenyl)-1-(2-pyridyl)-1-
H-pyrazole-5-carboxamide deriva. represented by the general formula (I)
or

salts thereof [wherein R1 = halogeno, alkyl, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, alkoxy, haloalkoxy, alkylcarbonyl, haloalkylcarbonyl, alkoxycarbonyl, haloalkoxycarbonyl, (un)substituted phenoxycarbonyl, NO2, CHO; R2, R3 = halogeno, alkyl, haloalkyl, alkoxy, haloalkoxy, cyano; A = Y-substituted alkyl (Y = C3-4 cycloalkyl optionally

substituted by 21 groups selected from halogeno, alkyl, and haloalkyl); n = 0,1; q = 0-4; provided that R1 is F, Cl, Br, or Me substituted at 2-position of the benzene ring and another R1 is halogeno substituted at 4-position of the benzene ring, the 4-halogeno group is F or Cl) are prepared. They are useful as pesticides, in particular insecticides, acaricides, nematocides, and parasiticides. Thus, 1.49 g Et3N was slowly added dropwise to a solution of 0.8 g

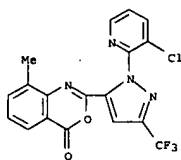
cyclopropylmethylamine hydrochloride in 40 mL THF, stirred at room temperature for 30 min, slowly

treated dropwise with a solution of 1 g 2-[1-(3-chloro-2-pyridyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one in 10 mL THF, and refluxed for 4 h to give, after workup and silica gel chromatog., 0.54 g N-[6-[(cyclopropylmethyl)amino]carbonyl]-2-methylphenyl]-1-(3-chloro-2-pyridyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (II). II at 3.1 ppm controlled 2-nd to 3-rd instar larvae of Spodoptera litura on cabbage leaves.

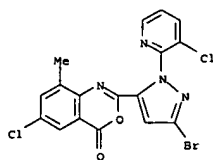
IT 500011-82-5 500011-87-0 862995-89-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of anthranilamides as pesticides such as insecticides, acaricides, nematocides, and parasiticides)

RN 500011-82-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

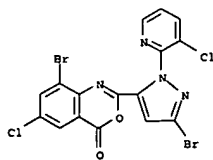
L4 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-87-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



RN 862995-89-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 8-bromo-2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR
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FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 15 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

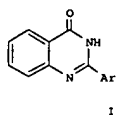
ACCESSION NUMBER: 2004:1080802 CAPLUS
 DOCUMENT NUMBER: 142:38265
 TITLE: Preparation of (hetero)aromatic-fused oxazine, thiazine and related derivatives as acce inhibitors
 Linschoten, Marcel
 INVENTOR(S):
 PATENT ASSIGNEE(S): Arexis AB, Swed.; Rasmussen, Pia
 SOURCE: PCT Int. Appl., 66 pp.
 CODEN: PIXXD2
 Patent
 DOCUMENT TYPE: English
 LANGUAGE:
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004108139	A2	20041216	WO 2004-DK388	20040607
WO 2004108139	A3	20050310		
WO 2004108139	A8	20050428		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RM:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2004244704	A1	20041216	AU 2004-244704	20040607
CA 2525383	A1	20041216	CA 2004-2525383	20040607
EP 1631295	A2	20060308	EP 2004-736195	20040607
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1802160	A	20060712	CN 2004-80015752	20040607
JP 2006526581	T	20061124	JP 2006-508134	20040607
NO 2006000091	A	20060306	NO 2006-91	20060106
US 2006258651	A1	20061116	US 2006-559322	20060426
PRIORITY APPLN. INFO.:			DK 2003-840	A 20030606
			DK 2003-842	A 20030606
			DK 2003-843	A 20030606
			DK 2003-844	A 20030606
			WO 2004-DK388	W 20040607

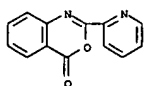
OTHER SOURCE(S): MARPAT 142:38265
 GI

L4 ANSWER 16 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:713027 CAPLUS
 DOCUMENT NUMBER: 142:219453
 TITLE: Synthesis and biological properties of selected 2-aryl-4(3H)-quinazolinones
 Lee, Eung Seok; Son, Jong Keun; Na, Young Hwa; Jahng, Yungdong
 CORPORATE SOURCE: College of Pharmacy, Yeungnam University, Kyongsan, 712-749, S. Korea
 SOURCE: Heterocyclic Communications (2004), 10(4-5), 325-330
 CODEN: HCOMEX; ISSN: 0793-0283
 PUBLISHER: Freund Publishing House Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:219453
 GI



AB A series of 2-aryl-4(3H)quinazolinones I (Ar = Ph, 2-pyridyl, indol-2-yl, quinolin-2-yl) were prepared as parent systems of rutaecarpine and luotonin
 A and their biol. properties (cytotoxicity and COX-2 inhibitory activity) were evaluated.
 IT 53904-12-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and ammonolysis of; synthesis and biol. properties of selected 2-aryl-4(3H)-quinazolinones)
 RN 53904-12-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-pyridinyl)- (9CI) (CA INDEX NAME)

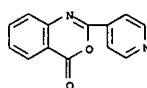


REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 15 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB Title compds. I and II [X = O, S; Y = O, S, NH (or N); Z = O, NH (or N); W, O, V, T = CH, CH2, S, N, O; A, B, C, D = (un)saturated aromatic; R1-2 = (if present) alk(en/yn)yl, cycloalkyl, etc.; R3 = (un)substituted (hetero)aryl] are prepared for instance, general procedures are described for the preparation of 2-phenylbenzo[d][1,3]oxazin-4-one (III). III has IC50 = 2 µM for stratum corneum chymotryptic enzyme (SCCE). I are useful for the treatment of skin diseases such as pruritus as well as cancer such as ovarian cancer.
 IT 57696-11-4P, 2-(Pyridin-4-yl)benzo[d][1,3]oxazin-4-one
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of (hetero)aromatic-fused oxazine, thiazine and related derive. as acce inhibitors)
 RN 57696-11-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



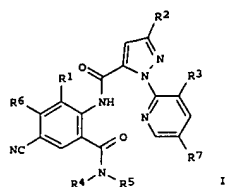
L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:648522 CAPLUS
 DOCUMENT NUMBER: 141:190786
 TITLE: Preparation of cyano anthranilamide insecticides
 Hughes, Kenneth Andrew; Lehm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin
 INVENTOR(S):
 PATENT ASSIGNEE(S): E.I. Du Pont de Nemours and Company, USA
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067528	A1	20040812	WO 2004-US3568	20040121
WO 2004067528	B1	20041007		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
AU 2004207848	A1	20040812	AU 2004-207848	20040121
CA 2512242	A1	20040812	CA 2004-2512242	20040121
EP 1599463	A1	20051130	EP 2004-704148	20040121
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
MD 2005000219	A	20051130	MD 2005-219	20040121
BR 2004006709	A	20051220	BR 2004-6709	20040121
JP 3764895	B1	20060412	JP 2005-518229	20040121
JP 2006515602	T	20060601		
CN 1829707	A	20060906	CN 2004-80002991	20040121
EG 23536	A	20060419	EG 2004-49	20040127
JP 2006028159	A	20060202	JP 2005-148184	20050520
JP 3770500	B2	20060426		
JP 2006290862	A	20061026	JP 2005-148201	20050520
US 2006111403	A1	20060525	US 2005-540966	20050629
PRIORITY APPLN. INFO.:			US 2003-443256P	P 20030128
			JP 2005-518229	A3 20040121
			WO 2004-US3568	W 20040121

OTHER SOURCE(S): MARPAT 141:190786
 GI

L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. [I; R1 = Me, Cl, Br, F; R2 = F, Cl, Br, haloalkyl or haloalkoxy; R3 = F, Cl, Br; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, each optionally substituted with one substituent selected from the group consisting of halo, CN, SMe S(O)Me, S(O)2Me and OMe; R5 = H, Me; R6 = H, F, Cl; R7 = H, F, Cl], useful for controlling an invertebrate pest, were prepared E.g., a multi-step synthesis of compound I

[R1 = Me; R2 = CF3; R3 = Cl; R4, R5 = H], was given. The compds. I were tested in various biol. tests (data given). This invention also pertains to a composition for controlling an invertebrate pest comprising a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the

compound I and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

IT 500028-90-0P 736995-60-1P 736995-61-2P

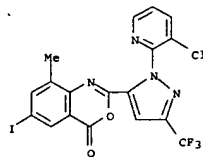
736995-62-3P 736995-63-4P 736995-64-5P

736995-65-6P 736995-66-7P

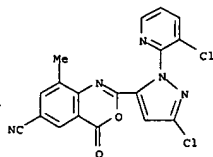
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of cyano anthranilamide insecticides)

RN 500028-90-0 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)

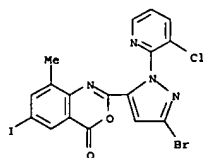


L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



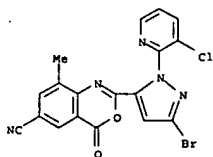
RN 736995-63-4 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)



RN 736995-64-5 CAPLUS

CN 4H-3,1-Benzoxazine-6-carbonitrile, 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)



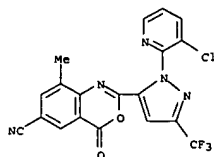
RN 736995-65-6 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-iodo- (9CI) (CA INDEX NAME)

L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

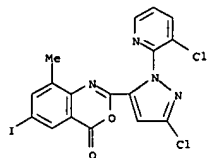
RN 736995-60-1 CAPLUS

CN 4H-3,1-Benzoxazine-6-carbonitrile, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)



RN 736995-61-2 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)

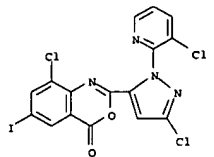


RN 736995-62-3 CAPLUS

CN 4H-3,1-Benzoxazine-6-carbonitrile, 2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)

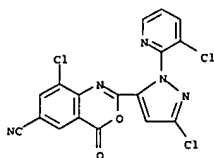


L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 736995-66-7 CAPLUS

CN 4H-3,1-Benzoxazine-6-carbonitrile, 8-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-4-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:453211 CAPLUS

DOCUMENT NUMBER:

141:23541

TITLE:

Preparation of isothiazolylbenzoxazinones as agrochemical microbicides

INVENTOR(S):

Assmann, Lutz; Kitagawa, Yoshinori; Shigyo, Takuma;

PATENT ASSIGNEE(S):

Oelgemöller, Michael; Sawada, Haruko

SOURCE:

Bayer Cropscience Aktiengesellschaft, Germany

DOCUMENT TYPE:

PCT Int. Appl., 50 pp.

LANGUAGE:

CODEN: PIXXD2

FAMILY ACC. NUM. COUNT:

Patent

PATENT INFORMATION:

English

PATENT NO.

KIND

DATE

APPLICATION NO.

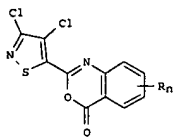
DATE

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004/046140	A1	2004/06/03	WO 2003/EP12475	2003/11/08
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RN: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004168707	A	2004/06/17	JP 2002-336329	2002/11/20
AU 2003288012	A1	2004/06/15	AU 2003-288012	2003/11/08
PRIORITY APPLN. INFO.:			JP 2002-336329	A 2002/11/20
			WO 2003-EP12475	W 2003/11/08

OTHER SOURCE(S):

MARPAT 141:23541

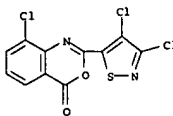
GI



I

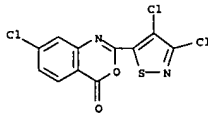
AB Title compds. (I; R = halo, alkyl, alkoxy, alkylthio, alkylsulfonyl, acylamino, Ph, PhO, CO₂H, dialkylsulfamoyl, acylamino, etc.; adjacent

L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



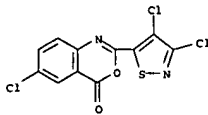
RN 698390-92-0 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 7-chloro-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)



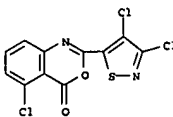
RN 698390-93-1 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)



RN 698390-94-2 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 5-chloro-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)



RN 698390-95-3 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 6-bromo-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)

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L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

pairs of R may form alkylene, alkenylene, alkylenedioxy, haloalkylenedioxy

groups; n = 0-4), were prepd. Thus, 2-(3,4-dichloroisothiazol-5-ylcarbonylamino)-5-bromobenzoic acid (prepn. given) was refluxed 2 h with Ac₂O to give 2-(3,4-dichloroisothiazol-5-yl)-6-bromo-4H-oxo-3,1-benzoxazine. Numerous I at 500 ppm gave >80% control of Pyricularia oryzae on rice.

IT

698390-89-5P 698390-90-8P 698390-91-9P
698390-92-0P 698390-93-1P 698390-94-2P
698390-95-3P 698390-96-4P 698390-97-5P
698390-98-6P 698390-99-7P 698391-01-4P
698391-02-5P 698391-03-6P 698391-04-7P
698391-06-9P 698391-07-0P 698391-08-1P
698391-09-2P 698391-10-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

USES

(Uses)

(preparation of isothiazolylbenzoxazinones as agrochem. microbicides)

RN

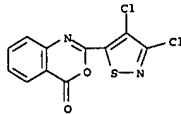
698390-89-5 CAPLUS

CN

4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)

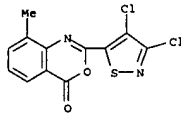
INDEX

NAME)



RN 698390-90-8 CAPLUS

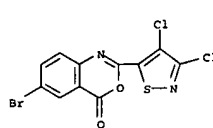
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-8-methyl- (9CI) (CA INDEX NAME)



RN 698390-91-9 CAPLUS

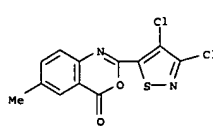
CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



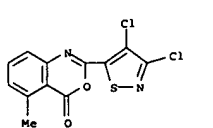
RN 698390-96-4 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6-methyl- (9CI) (CA INDEX NAME)



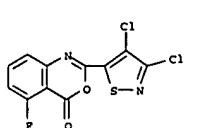
RN 698390-97-5 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-5-methyl- (9CI) (CA INDEX NAME)



RN 698390-98-6 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-5-fluoro- (9CI) (CA INDEX NAME)

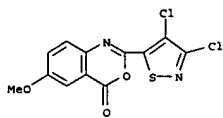


RN 698390-99-7 CAPLUS

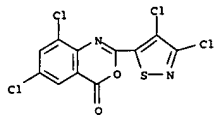
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6-methoxy- (9CI) (CA INDEX NAME)

03/06/2007

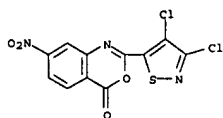
L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 698391-01-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6,8-dichloro-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)

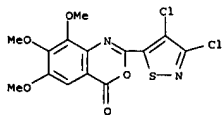


RN 698391-02-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-7-nitro- (9CI) (CA INDEX NAME)

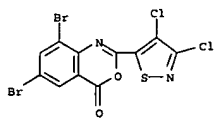


RN 698391-03-6 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-7-methyl- (9CI) (CA INDEX NAME)

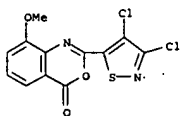
L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



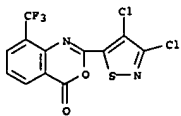
RN 698391-08-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6,8-dibromo-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)



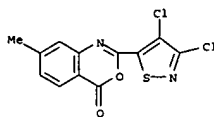
RN 698391-09-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-8-methoxy- (9CI) (CA INDEX NAME)



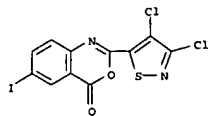
RN 698391-10-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)



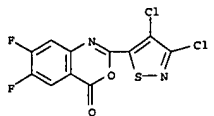
L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 698391-04-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6-iodo- (9CI) (CA INDEX NAME)



RN 698391-06-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6,7-difluoro- (9CI) (CA INDEX NAME)



RN 698391-07-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6,7,8-trimethoxy- (9CI) (CA INDEX NAME)

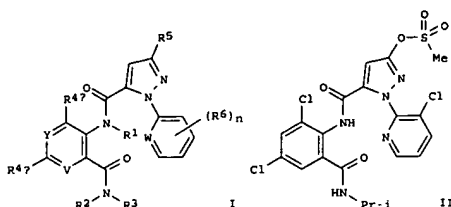
L4 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:453202 CAPLUS
DOCUMENT NUMBER: 141:23526
TITLE: Novel pyrazole-based anthranilamide insecticides and their preparation, compositions, and use
INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul
PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046129	A2	20040603	WO 2003-US36167	20031112
WO 2004046129	A3	20040715		
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RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003295491	A1	20040615	AU 2003-295491	20031112
EP 1560820	A2	20050810	EP 2003-786682	20031112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003015714	A	20050906	BR 2003-15714	20031112
CN 1711255	A	20051221	CN 2003-80103401	20031112
JP 2006514632	T	20060511	JP 2004-553598	20031112
US 2006014808	A1	20060119	US 2005-529612	20050330
PRIORITY APPLN. INFO.:				US 2002-426693P P 20021115
				WO 2003-US36167 W 20031112

OTHER SOURCE(S): MARPAT 141:23526
GI

L4 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

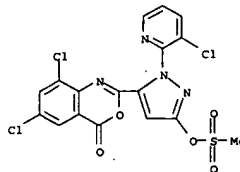


AB The invention provides title compds. I and their N-oxides and suitable salts [wherein: Y, V = N or CR4a; W = N, CH, or CR6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, alkylcarbonyl, alkoxy, alkoxyalkyl, (di)alkylaminocarbonyl; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, (di)alkylamino, cycloalkylamino, alkoxyalkyl, or alkoxyalkyl, R3 = H, G, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; or NR2R3 = (un)substituted heterocyclic (N/O/S) ring; G = (un)substituted 5- or 6-membered non-aromatic carbo- or heterocyclic ring; R4a, R4b = H, various carbon and heteroat. substituents; R5 = alk(en/yn)yl, various derivs. of OH, SH, and NH2; R6 = (halo)alk(en/yn)yl, OH and deriva. or thio analogs, halo, cyano, CO2H, (di)alkylamino, (un)substituted Ph, PhCH2, PhCO, PhO, etc.; n = 0-4]. The invention also pertains to compds. for controlling invertebrate pests, comprising a biol. effective amount of I, their N-oxides, or their agronomically or nonagronomically suitable salts, and at least one addnl. component selected from surfactants, solid diluents, and liquid diluents, and optionally further comprising an effective amount of at least one addnl. biol. active compound or agent. Also disclosed are methods for controlling invertebrate pests by contact of the pests or their environment with said compds. Eighteen compds. I were prepared and tested. For instance, 3-chloro-2-hydrazinopyridine was cyclocondensed with di-Et maleate to give 55% Et 1-(3-chloro-2-pyridinyl)-3-pyrazolidinone-5-carboxylate, which was oxidized to a dihydropyrazolone, saponified to an acid, cyclized with dichloroanthranilic acid to give a benzoxazinone, O-mesylated at the pyrazolone, and ring-opened with MeNH2, to give invention compound II.

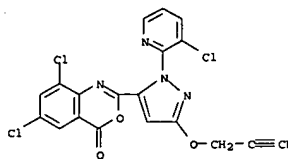
In a test of larval *Plutella xylostella* on radish plants, II at 50 ppm (spray) reduced feeding damage by 80% or more. Compds. I were also effective against *Spodoptera frugiperda*, *Myzus persicae*, and *Empoasca fabae*.

IT 697799-66-9P, 6,8-Dichloro-2-[1-(3-chloro-2-pyridinyl)-3-[(methylsulfonyl)oxy]-1H-pyrazol-5-yl]-4H-3,1-benzoxazin-4-one

L4 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 697799-69-2P, 6,8-Dichloro-2-[1-(3-chloro-2-pyridinyl)-3-(2-propynyloxy)-1H-pyrazol-5-yl]-4H-3,1-benzoxazin-4-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (intermediate; prepn. of novel pyrazole-based anthranilamide insecticides)
 RN 697799-66-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,8-dichloro-2-[1-(3-chloro-2-pyridinyl)-3-[(methylsulfonyl)oxy]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



RN 697799-69-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,8-dichloro-2-[1-(3-chloro-2-pyridinyl)-3-(2-propynyloxy)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



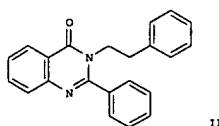
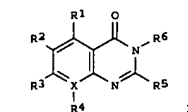
L4 ANSWER 20 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:412903 CAPLUS
 DOCUMENT NUMBER: 140:423688
 TITLE: Preparation of quinazolinone derivatives as calcilytics
 INVENTOR(S): Shcherbakova, Irina; Balandrin, Manuel; Fox, John; Heaton, William; Conklin, Rebecca; Papac, Damon
 PATENT ASSIGNEE(S): NPS Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 74 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041755	A2	20040521	WO 2003-US35162	20031104
WO 2004041755	A3	20040708		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RM:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,			
CA 2502302	A1	20040521	CA 2003-2502302	20031104
AU 2003291761	A1	20040607	AU 2003-291761	20031104
EP 1558260	A2	20050803	EP 2003-768655	20031104
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1708306	A	20051214	CN 2003-80102626	20031104
JP 2006512115	T	20060413	JP 2004-550482	20031104
US 2006052145	A1	20060309	US 2005-531161	20050412
PRIORITY APPLN. INFO.:			US 2002-423663P	P 20021104
			WO 2003-US35162	W 20031104

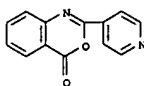
OTHER SOURCE(S): MARPAT 140:423688
 GI

L4 ANSWER 20 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. I [R1, R2, R3 = H, halo, CN, CP3, OCP3, alkyl, alkoxy, etc.; R4 (optional) = H, halo, CN, CP3, OCP3, alkyl, alkoxy, etc.; X = C or N; R5 = H, alkyl, furyl, thienyl, styryl, pyridyl, (substituted)phenyl; R6 = H, alkyl, or -(CH2)n-X1-R7; n = 0-2; X1 = O, CO, CHO, alkyl, or a single bond; R7 = an aromatic group optionally substituted with 1-3 substituents selected from H, halo, CN, CP3, OCP3, alkyl, alkoxy, etc.] were prepared as calcium receptor antagonists for the treatment of bone diseases. Thus, reaction of 2-phenyl-benzo[d][1,3]oxazin-4-one (preparation given) with phenethylamine gave compound II. Methods to determine the biol. activity of the compound of this invention were demonstrated.

IT 57696-11-4, 2-Pyridin-4-yl-benzo[d][1,3]oxazin-4-one
 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of quinazolinone deriva. as calcilytics)
 RN 57696-11-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:339324 CAPLUS

DOCUMENT NUMBER:

140:339324

TITLE:

Preparation of anthranilamide derivatives for

INVENTOR(S):

Lehm, George Philip; Selby, Thomas Paul; Stevenson,

Thomas Martin

PATENT ASSIGNEE(S):

E.I. Du Pont de Nemours and Company, USA

SOURCE:

PCT Int. Appl., 58 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent

FAMILY ACC. NUM. COUNT:

English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004033468	A1	20040422	WO 2003-US31677	20031001
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG			
AU 2003282711	A1	20040504	AU 2003-282711	20031001
EP 1546160	A1	20050629	EP 2003-774596	20031001
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003014497	A	20050802	BR 2003-14497	20031001
CN 1703417	A	20051130	CN 2003-80100845	20031001
JP 20060502226	T	20060119	JP 2004-543434	20031001
US 20060522143	A1	20060309	US 2005-527863	20050316
PRIORITY APPL. INFO.:			US 2002-416364P	P 20021004
			WO 2003-US31677	W 20031001

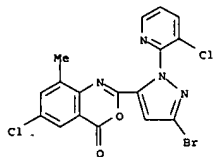
OTHER SOURCE(S):

MARPAT 140:339324

GI

L4 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



REFERENCE COUNT:

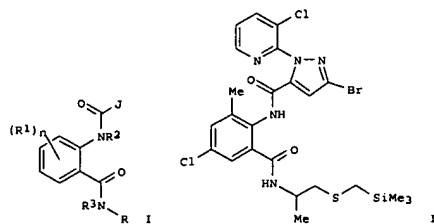
2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



AB Title compds. I [wherein R = -U-A-V-B; U, V = independently (un)substituted alkylene; A = O, S(O)m, m = 0-2; B = trisubstituted silyl;

J = (un)substituted Ph, pyrazolyl, pyrrolyl, pyridinyl, pyrimidinyl; R1 = independently (cyclo)alkyl, alkenyl, alkynyl, haloalkylsulfenyl, benzyl, etc.; R2 = H, (un)substituted (cyclo)alkyl, alkynyl, alkylaminocarbonyl, etc.; R3 = H, (cyclo)alkyl, alkenyl, alkynyl, alkoxy, (di)alkylamino, etc.; n = 0-4; and N-oxides or suitable salts thereof] were prepared as insecticides for controlling invertebrate pests. For example, reaction of 3-chloro-2(1H)-pyridinone hydrazone with di-Et maleate (55%), followed by bromination with phosphorus oxybromide (95%), gave Et 3-bromo-1-(3-chloro-2-pyridinyl)-4,5-dihydro-1H-pyrazole-5-carboxylate. Oxidation of the ester (90%) and hydrolysis (91%), afforded 3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxylic acid. Reaction of the acid with methanesulfonyl chloride and 2-amino-3-methyl-5-chlorobenzoic acid (96%), followed by amidation with 1-[(trimethylsilyl)methyl]thio]propan-2-ylamine, provided II. The prepared I showed very good to excellent levels of plant protection (20% or less feeding damage) against diamondback moth and fall armyworm. This invention also pertains to a composition comprising at least one compound I and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

IT 500011-87-0P, 2-[3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of anthranilamide deriva. for controlling invertebrate

pests)

RN 500011-87-0 CAPLUS

CN 4H-3,1-Benzoxazin-4-one,

2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:101149 CAPLUS

DOCUMENT NUMBER:

140:146150

TITLE:

Method for preparing fused oxazinones by cyclocondensation of ortho-amino aromatic carboxylic acids with carboxylic acids

INVENTOR(S):

Taylor, Eric Deguyon

PATENT ASSIGNEE(S):

E.I. Du Pont de Nemours and Company, USA

SOURCE:

PCT Int. Appl., 80 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent

FAMILY ACC. NUM. COUNT:

English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011447	A2	20040205	WO 2003-US23821	20030729
WO 2004011447	A3	20040318		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG			
AU 2003257028	A1	20040216	AU 2003-257028	20030729
EP 1549643	A2	20050706	EP 2003-772097	20030729
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003013341	A	20050712	BR 2003-13341	20030729
CN 1671703	A	20050921	CN 2003-818202	20030729
JP 20060501203	T	20060112	JP 2004-524204	20030729
US 2005215785	A1	20050929	US 2004-518324	20041215
PRIORITY APPL. INFO.:			US 2002-400352P	P 20020731
			US 2003-446438P	P 20030211
			WO 2003-US23821	W 20030729

OTHER SOURCE(S):

MARPAT 140:146150

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A method for preparing a fused oxazinone (I; J = an optionally substituted carbon moiety; K together with the two contiguous linking carbon atoms = each (un)substituted a fused Ph ring or a fused 5- or 6-membered heteroarom. ring) is disclosed in which (1) a carboxylic acid of formula J-CO2H is contacted with a sulfonyl chloride of formula LS(O)2Cl [L = each (un)substituted alkyl, haloalkyl, or Ph] in the presence of an optionally substituted pyridine compound, the nominal mole ratio of sulfonyl chloride

L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
to carboxylic acid being from about 0.75 to 1.5; (2) the mixt. prep. in (1) is contacted with an ortho-amino arom. carboxylic acid in the presence

of an optionally substituted pyridine compd., the nominal mole ratio of the ortho-amino arom. carboxylic acid to carboxylic acid (II; X = same as above) charged in (1) being from about 0.8 to 1.2; and (3) addnl. sulfonfyl

chloride is added to the mixt. prep. in (2), the nominal mole ratio of addnl. sulfonfyl chloride added in (3) to carboxylic acid charged in (1) being at least about 0.5. More specifically disclosed is a method for prep. a compd. of formula (III) [X = N, CR6; Y = N, CH; R1 = H, R2 = H, Me; R3 = C1-6 alkyl; R4 = C1-4 alkyl, halo; R5 = H, C1-4 alkyl, C1-4 haloalkyl, halo; R6, R7 = H, C1-4 alkyl, C1-4 haloalkyl, halo, cyano,

C1-4 haloalkyl; R8 = H, C1-4 alkyl, C2-4 alkenyl, C2-4 alkynyl, C3-6 cycloalkyl, C1-4 haloalkyl, C2-4 haloalkenyl, C2-4 haloalkynyl, C3-6 halocycloalkyl, halogen, cyano, NO2, C1-4 alkoxy, C1-4 haloalkoxy, C1-4 alkylthio, C1-4 alkylsulfonyl, C1-4 alkylsulfonyl, C1-4 alkylamino, C2-8 dialkylamino, C3-6 cycloalkylamino, (C1-4 alkyl)(C3-6 cycloalkyl)amino, etc.; R9 = CF3, OCF3, OCHF2, OCH2CF3, S(O)pCF3, S(O)pCHF2, halo; p = 0-2] using a compd. of formula (IV; R1-R5 = same as above; R7-R9 = same as above; X, Y = same as above) that is characterized by prep. the fused oxazinone IV by the method above, using a compd. of the formula LS(O)2Cl as the sulfonfyl chloride, a compd. of formula (V) (R7-R9 = same as above) as the carboxylic acid, and a compd. of formula (VI) (R4, R5 = same as above) as the ortho-amino arom. carboxylic acid.

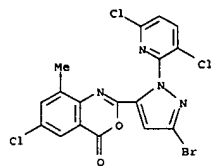
IT 500011-83-6P, 6-Chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 500011-87-0P,

2-[3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one 652980-05-7P, 2-[3-Bromo-1-(3,4-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one 652980-06-8P, 2-[3-Bromo-1-(3,6-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one 652980-09-1P, 2-[3-Bromo-1-(3-chloro-1-oxido-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one

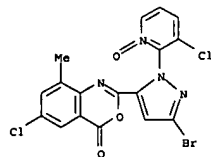
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of fused oxazinones by cyclocondensation of ortho-amino

aromatic carboxylic acids with carboxylic acids)

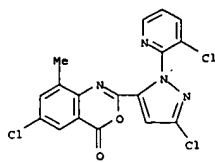
RN 500011-83-6 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
6-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



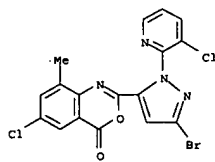
RN 652980-09-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-1-oxido-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



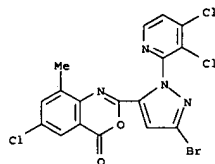
L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-87-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



RN 652980-05-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3,4-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



RN 652980-06-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3,6-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:412763 CAPLUS
DOCUMENT NUMBER: 139:197419
TITLE: Reactions of some (arylhydrazono)furanones with amino acids and malononitrile
AUTHOR(S): El-Kousy, Salah M.; Heshem, Ahmed I.; El-Torgoman, Abdel Moneim; Salama, Gamal M.
CORPORATE SOURCE: Faculty of Science, Minufiya University, Cairo, Egypt
SOURCE: Afinidad (2003), 60(503), 61-64
CODEN: AFINAE; ISSN: 0001-9704
PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:197419
GI

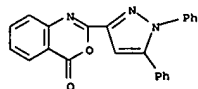
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Reaction of (arylhydrazono)furanones I (R = H, Cl; R1 = H, Me, Cl, OMe) with glycine in AcOH gave (pyrazolylcarbonyl)glycines II (same R, R1).

II were converted to 4-arylidene-2-(1,5-diarylpyrazol-3-yl)-2-oxazolin-5-ones III by reaction with benzaldehyde in acetic anhydride. I were rearranged with anthranilic acid in the presence of acetic acid to afford N-(1,5-diarylpyrazol-3-ylcarbonyl)anthranilic acids. These anthranilic acids could be cyclized with acetic anhydride to give pyrazolylbenzoxazinones (IV). Malononitrile in dioxane containing sodium metal rearranged I to (pyrazolylcarbonyl)malononitriles. Et cyanoacetate did not react with I but the basic medium of the reaction converted I to pyrazolcarboxylic acids.

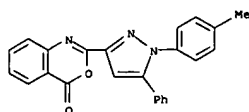
IT 583825-78-9P 583825-79-OP 583825-80-3P
583825-81-4P 583825-82-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(pyrazole deriva. via reaction of (arylhydrazono)furanones with amino acids, malononitrile, and Et cyanoacetate)

RN 583825-78-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(1,5-diphenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

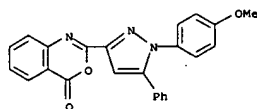


RN 583825-79-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(4-methylphenyl)-5-phenyl-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

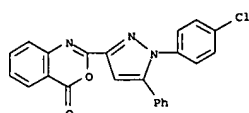
L4 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 583825-80-3 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[1-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-3-yl]-
(9CI) (CA INDEX NAME)



RN 583825-81-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(4-chlorophenyl)-5-phenyl-1H-pyrazol-3-yl]-
(9CI) (CA INDEX NAME)



RN 583825-82-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[5-(4-chlorophenyl)-1-(4-methylphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

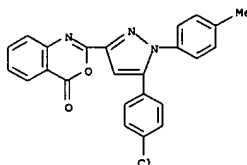
L4 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:261833 CAPLUS
DOCUMENT NUMBER: 138:287669
TITLE: Preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodocides
Zimmerman, William Thomas
E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl. 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027099	A1	20030403	WO 2002-US28274	20020906
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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EP 1438305	A1	20040721	EP 2002-799567	20020906
EP 1438305	B1	20060823		
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BR 2003012695	A	20041019	BR 2002-12695	20020906
CN 1556806	A	20041222	CN 2002-818570	20020906
JP 2005505576	T	20050224	JP 2003-530687	20020906
US 2004186141	A1	20040923	US 2004-485093	20040126
US 7179824	B2	20070220		
IN 2004MN00089	A	20050429	IN 2004-MN89	20040205
PRIORITY APPLN. INFO.:			US 2001-324011P	P 20010921
			WO 2002-US28274	W 20020906

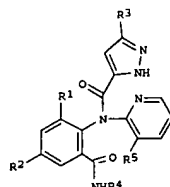
OTHER SOURCE(S): MARPAT 138:287669
GI

L4 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



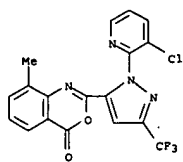
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB Title compds. [I: R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO2, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, alkylsulfonyl, haloalkylthio, alkoxy, carbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO2H, CONH2, NO2, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxy, carbonyl, trialkylsilyl, etc.], were prepared. Thus,
1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid (preparation given) was stirred with (COCl)₂ and cat. DMF in CH₂Cl₂ to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give
2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me₂CHNH₂ to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[1-(1-methylethyl)amino]carbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. This was stirred overnight with DBU in MeCN to give
N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[1-(1-methylethyl)amino]carbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3-carboxamide. The latter at 250 ppm on radishes preinfested with *Plutella xylostella* gave 510% feeding damage.
IT 500011-82-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodocides)
RN 500011-82-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

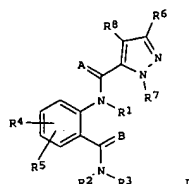
L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:242097 CAPLUS
DOCUMENT NUMBER: 138:267201
TITLE: Pesticidal compositions for coating plant propagation material containing anthranilamides
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024222	A1	20030327	WO 2002-US30302	20020910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2458163	A1	20030327	CA 2002-2458163	20020910
EP 1427285	A1	20040616	EP 2002-775972	20020910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012993	A	20040817	BR 2002-12993	20020910
JP 2005502716	T	20050127	JP 2003-528126	20020910
JP 3770495	B2	20060426		
HU 200401893	A2	20050128	HU 2004-1893	20020910
NZ 532269	A	20051028	NZ 2002-532269	20020910
CN 1713819	A	20051228	CN 2002-818578	20020910
RU 2292138	C2	20070127	RU 2004-111986	20020910
ZA 2004000413	A	20050120	ZA 2004-413	20040120
US 2004209923	A1	20041021	US 2004-485125	20040126
IN 2005MN00443	A	20050930	IN 2005-MN443	20050517
PRIORITY APPLN. INFO.:			US 2001-323941P	P 20010921
			WO 2002-US30302	W 20020910

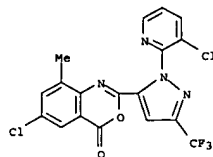
OTHER SOURCE(S): MARPAT 138:267201
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L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

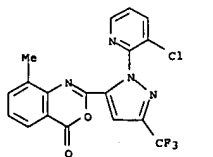


AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included),
an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodocides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.
IT 438450-40-9P, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one
500011-82-5P 500011-83-6P 500011-87-0P
500011-98-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of anthranilamide compds. as pesticides for plant propagation material)
RN 438450-40-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

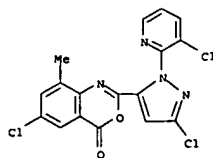
L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-82-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

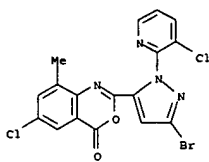


RN 500011-83-6 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

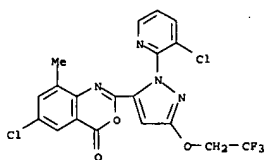


RN 500011-87-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-98-3 CAPLUS
 CN 4H-3,1-benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(2,2,2-trifluoroethoxy)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
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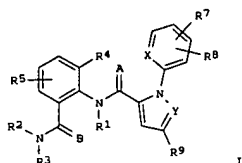
L4 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:154408 CAPLUS
 DOCUMENT NUMBER: 138:205054
 TITLE: Preparation of substituted anthranilamides for
 controlling invertebrate pests
 INVENTOR(S): Finkelstein, Bruce Lawrence; Lahm, George Philip;
 McCann, Stephen Frederick; Song, Ying; Stevenson,
 Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016284	A1	20030227	WO 2002-US26960	20020813
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RM:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LJ, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG			
EP 1417176	A1	20040512	EP 2002-761486	20020813
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LJ, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
BR 2002012183	A	20040824	BR 2002-12183	20020813
JP 2005503384	T	20050203	JP 2003-521210	20020813
CN 1653051	A	20050810	CN 2002-816050	20020813
IN 2004MN00027	A	20050429	IN 2004-MN27	20040112
US 2005282868	A1	20051222	US 2004-486312	20040722
PRIORITY APPLN. INFO.:			US 2001-312680P	P 20010816
			WO 2002-US26960	W 20020813

OTHER SOURCE(S): MARPAT 138:205054
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L4 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

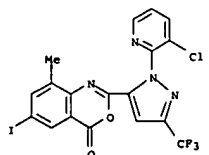


AB: The title compds. [I; A, B = O, S; X = N, CR10; Y = N, CH; R1 = H, alkyl, cycloalkyl, etc.; R2 = alkyl, alkenyl, cycloalkyl, etc.; R3 = H, alkyl, alkenyl, etc.; NR2R3 = (un)substituted ring optionally containing addnl. heteroatom; R4 = alkyl, haloalkyl, CN, etc.; R5, R8 = H, alkyl, haloalkyl, etc.; R7 = H, alkyl, haloalkyl, etc.; R9 = CF3, OCF3, OCHF2, etc.; R10 = H, alkyl, haloalkyl, etc.], useful for controlling an invertebrate pest, were prepared E.g., a 3-step synthesis of I [A, B = O; X = CH; Y = N; R1 =

H; R2 = iso-Pr; R3 = H; R4 = Me; R5 = H; R7 = 2-(CH2OH); R8 = H; R9 = CF3], starting from 1-(2-(methoxycarbonyl)phenyl)-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid and 2-amino-3-methylbenzoic acid, which provided excellent levels of plant protection (20% or less damage) in biol. tests, was given.

IT 500028-90-OP 500028-92-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of substituted anthranilamides for controlling invertebrate pests)

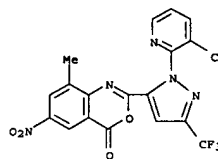
RN 500028-90-0 CAPLUS
 CN 4H-3,1-benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)



RN 500028-92-2 CAPLUS
 CN 4H-3,1-benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-6-nitro- (9CI) (CA INDEX NAME)

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L4 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
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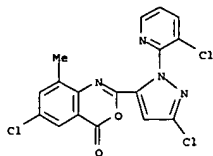
03/06/2007

L4 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003.154155 CAPLUS
 DOCUMENT NUMBER: 138:200332
 TITLE: Arthropodocidal anthranilamides
 INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

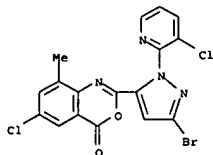
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015519	A1	20030227	WO 2002-US25615	20020813
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RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EG 23419	A	20050704	EG 2002-893	20020810
TW 225774	B	20050101	TW 2002-91118100	20020812
CA 2454485	A1	20030227	CA 2002-2454485	20020813
EP 1416797	A1	20040512	EP 2002-752811	20020813
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012021	A	20040803	BR 2002-12023	20020813
JP 2004538328	T	20041224	JP 2003-520290	20020813
JP 3729825	B2	20051221		
NZ 530443	A	20050729	NZ 2002-530443	20020813
ZA 2004000033	A	20050803	ZA 2004-33	20020813
ZA 2004000034	A	20050803	ZA 2004-34	20020813
CN 1678192	A	20051005	CN 2002-815924	20020813
RU 2283840	C2	20060920	RU 2004-107505	20020813
HU 200600675	A2	20070129	HU 2006-675	20020813
ZA 2003009911	A	20050311	ZA 2003-9911	20031222
US 2004198984	A1	20041007	US 2004-483168	20040107
JP 2005041880	A	20050217	JP 2004-258923	20040906
PRIORITY APPLN. INFO.:			US 2001-311919P	P 20010813
			US 2001-324128P	P 20010921
			US 2002-369661P	P 20020402
			JP 2003-520290	A3 20020813
			WO 2002-US25615	W 20020813

OTHER SOURCE(S): MARPAT 138:200332

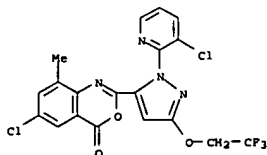
L4 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 4H-3,1-Benzoxazin-4-one,
 6-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 500011-87-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



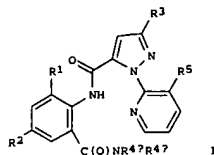
RN 500011-98-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(2,2,2-trifluoroethoxy)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



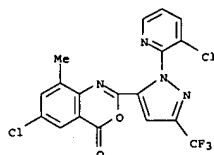
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L4 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 G1



AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodocides for controlling invertebrate pests. Arthropodocidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodocides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. aizawai, *B. thuringiensis* sp. kurataki, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.
 B. 438450-40-9P, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 500011-83-6P 500011-87-0P 500011-98-3P
 IT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of arthropodocidal anthranilamide)
 RN 438450-40-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 500011-83-6 CAPLUS

L4 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

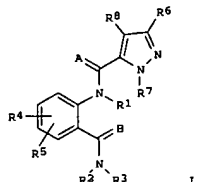
03/06/2007

L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:154154 CAPLUS
 DOCUMENT NUMBER: 138:200331
 TITLE: Method for controlling particular insect pests by
 applying anthranilamide compounds
 INVENTOR(S): Lahm, George Philip; McCann, Stephen Frederick;
 Patel, Kanu Maganbhai; Selby, Thomas Paul; Stevenson, Thomas
 Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 150 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015518	A1	20030227	WO 2002-US25613	20020813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2454302	A1	20030227	CA 2002-2454302	20020813
EP 1416796	A1	20040512	EP 2002-752809	20020813
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
HU 200401043	A2	20040928	HU 2004-1043	20020813
BR 2002012187	A	20041005	BR 2002-12187	20020813
CN 1541063	A	20041027	CN 2002-815930	20020813
JP 2004538327	T	20041224	JP 2003-520289	20020813
JP 3689817	B2	20050831		
ZA 2004000033	A	20050803	ZA 2004-33	20020813
ZA 2004000034	A	20050803	ZA 2004-34	20020813
RU 2262231	C1	20051020	RU 2004-107513	20020813
NZ 530442	A	20060728	NZ 2002-530442	20020813
ZA 2003009911	A	20050311	ZA 2003-9911	20031222
US 2005075372	A1	20050407	US 2004-483115	20040107
JP 2005041880	A	20050217	JP 2004-258923	20040906
PRIORITY APPLN. INFO.:			US 2001-311919P	P 20010813
			US 2001-324173P	P 20010921
			US 2001-324128P	P 20010921
			US 2002-369661P	P 20020402
			JP 2003-520290	A3 20020813

L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 WO 2002-US25613 W 20020813

OTHER SOURCE(S): MARPAT 138:200331
 G1



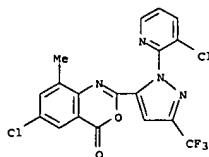
AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodocides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

IT 438450-40-9P. 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 500011-82-5P 500011-83-6P 500011-87-0P 500011-98-3P

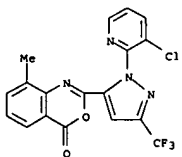
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

RN 438450-40-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

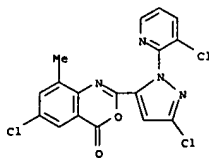
L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-82-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

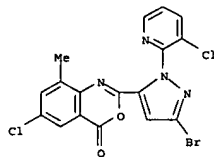


RN 500011-83-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

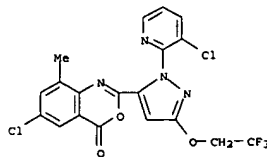


RN 500011-87-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-98-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(2,2,2-trifluoroethoxy)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:76617 CAPLUS
 DOCUMENT NUMBER: 138:131087
 TITLE: New use
 INVENTOR(S): Hickson, Ian david; Hammonds, Timothy Robin
 PATENT ASSIGNEE(S): Cancer Research Technology Limited, UK
 SOURCE: PCT Int. Appl., 150 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

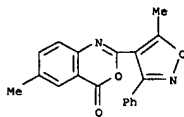
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003007955	A2	20030130	WO 2002-GB3342	20020722
WO 2003007955	A3	20030501		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GO, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2001-306679P P 20010720

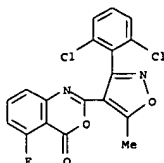
OTHER SOURCE(S): MARPAT 138:131087
 AB The present invention provides the use of a low mol. weight mammalian AP endonuclease inhibitor for the preparation of a medicament for the treatment of cancer. Markushes included.
 IT 218457-40-0 491861-59-7 491861-68-8
 491861-78-0
 RL: PAC (Pharmacological activity); BIOL (Biological study)
 (low mol. weight mammalian AP endonuclease inhibitors as antitumor agents)
 RN 218457-40-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[3-(2,6-dichlorophenyl)-5-methyl-4-isoxazolyl]-
 5-fluoro- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

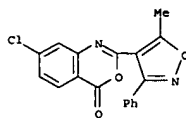
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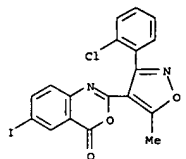
L4 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 491861-59-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 7-chloro-2-(5-methyl-3-phenyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



RN 491861-68-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]-6-iodo- (9CI) (CA INDEX NAME)



RN 491861-78-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-methyl-2-(5-methyl-3-phenyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

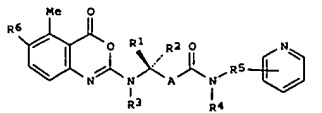
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L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:22872 CAPLUS
 DOCUMENT NUMBER: 138:89816
 TITLE: Preparation of pyridine ring-containing benzoxazinone derivatives for treatment of viral infections
 INVENTOR(S): Takahashi, Wataru; Matsumoto, Naoto; Saito, Yasuyoshi
 PATENT ASSIGNEE(S): Asahi Kasei Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003002558	A1	20030109	WO 2002-JP5795	20020611
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GO, GW, ML, MR, NE, SN, TD, TG				
EP 1403269	A1	20040331	EP 2002-733468	20020611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004116420	A1	20040617	US 2003-480451	20031212
PRIORITY APPLN. INFO.: JP 2001-179282 A 20010613				
JP 2001-179282 A 20011212				
WO 2002-JP5795 W 20020611				

OTHER SOURCE(S): MARPAT 138:89816
 GI



AB The title compds. 1 [R1, R2 = H, alkyl, etc.; or R1R2 = cycloalkyl; A = (CH2)n; n = 0 or 1; R3 = H, alkyl, etc.; R4 = H, alkyl, alkenyl, etc.; R5 = alkylene; or NR4R5 = heterocyclyl; R6 = H, halo, etc.] are prepared 1 have excellent protease inhibitory activity. 1 are useful in the treatment of viral infectious diseases, in particular herpesvirus infections. Compds. of this invention in vitro showed EC50 values of 3.2 μM to > 12 μM against HSV-1.
 IT 484010-49-3P 484010-50-6P 484010-51-7P

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

484010-52-8P 484010-53-9P 484010-54-0P
 484010-55-1P 484010-56-2P 484010-65-3P
 484010-66-4P 484010-67-5P 484010-68-6P
 484010-69-7P 484010-70-8P 484010-71-1P
 484010-72-2P 484010-73-3P 484010-74-4P
 484010-75-5P 484010-76-6P 484010-77-7P
 484010-78-8P 484010-79-9P

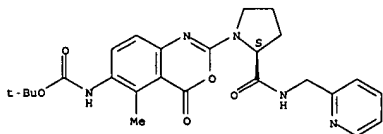
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyridine ring-contg. benzoxazinone deriva. for treatment of viral infections)

RN 484010-49-3 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[2-(pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

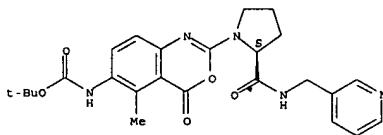
Absolute stereochemistry.



RN 484010-50-6 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[3-(pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 484010-51-7 CAPLUS

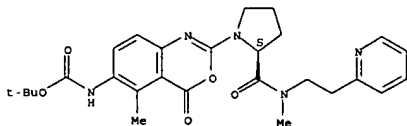
CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[4-(pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 484010-54-0 CAPLUS

CN Carbamic acid, [5-methyl-2-[(2S)-2-[[[methyl(2-(pyridinyl)ethyl)amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

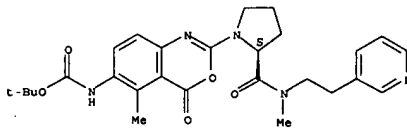
Absolute stereochemistry.



RN 484010-55-1 CAPLUS

CN Carbamic acid, [5-methyl-2-[(2S)-2-[[[methyl(2-(3-pyridinyl)ethyl)amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

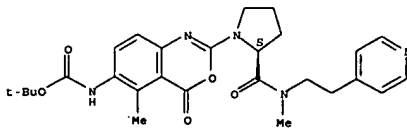
Absolute stereochemistry.



RN 484010-56-2 CAPLUS

CN Carbamic acid, [5-methyl-2-[(2S)-2-[[[methyl(2-(4-pyridinyl)ethyl)amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



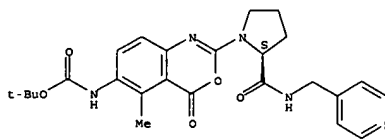
RN 484010-65-3 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[2-(pyridinyl)ethyl]amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

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L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

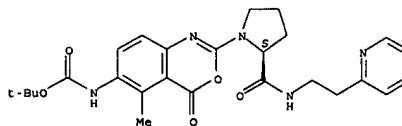
Absolute stereochemistry.



RN 484010-52-8 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[2-(2-pyridinyl)ethyl]amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

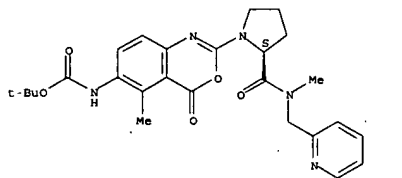
Absolute stereochemistry.



RN 484010-53-9 CAPLUS

CN Carbamic acid, [5-methyl-2-[(2S)-2-[[[methyl(2-(pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

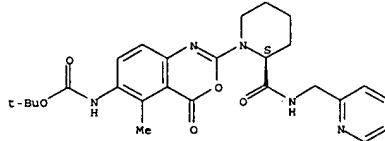
Absolute stereochemistry.



L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

pyridinylmethyl)amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

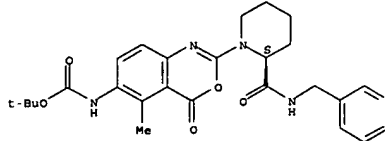
Absolute stereochemistry.



RN 484010-66-4 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[3-(pyridinylmethyl)amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

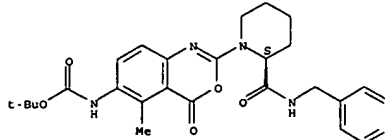
Absolute stereochemistry.



RN 484010-67-5 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[4-(pyridinylmethyl)amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



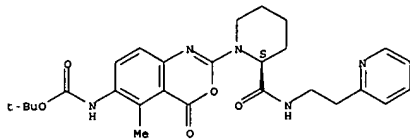
RN 484010-68-6 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[[[2-(2-pyridinyl)ethyl]amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

03/06/2007

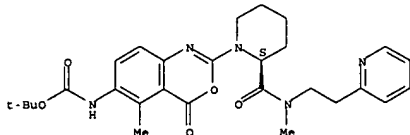
L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.



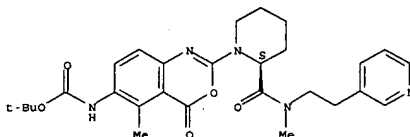
RN 484010-69-7 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S)-2-[[methyl(2-(2-pyridinyl)ethyl)amino]carbonyl]-1-piperidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



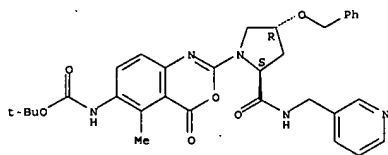
RN 484010-70-0 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S)-2-[[methyl(2-(3-pyridinyl)ethyl)amino]carbonyl]-1-piperidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



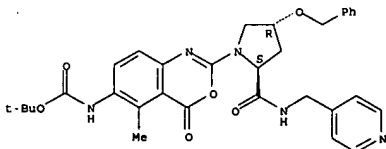
RN 484010-71-1 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S)-2-[[methyl(2-(4-

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



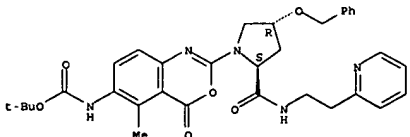
RN 484010-74-4 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylmethoxy)-2-[[4-(2-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 484010-75-5 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylmethoxy)-2-[[4-(2-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

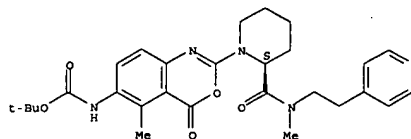


RN 484010-76-6 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[[methyl(2-pyridinylmethyl)amino]carbonyl]-4-(phenylmethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

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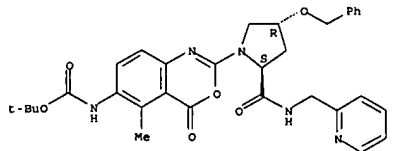
L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 pyridinyl)ethyl]amino]carbonyl]-1-piperidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 484010-72-2 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylmethoxy)-2-[[2-(2-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

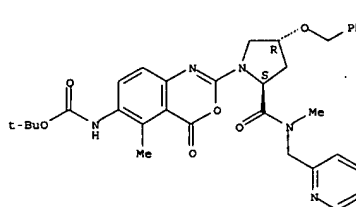


RN 484010-73-3 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylmethoxy)-2-[[2-(2-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

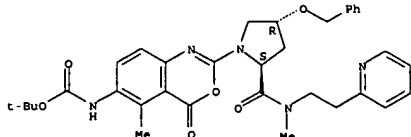


L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



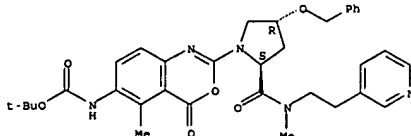
RN 484010-77-7 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[[methyl(2-(2-pyridinyl)ethyl)amino]carbonyl]-4-(phenylmethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 484010-78-8 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[[methyl(2-(3-pyridinyl)ethyl)amino]carbonyl]-4-(phenylmethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

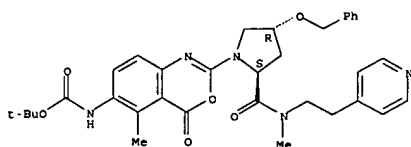


RN 484010-79-9 CAPLUS

03/06/2007

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[[methyl(2-(4-pyridinyl)ethyl]amino)carbonyl]-4-(phenylmethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

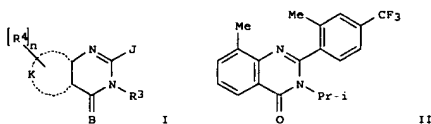


REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:465981 CAPLUS
 DOCUMENT NUMBER: 137:47212
 TITLE: Preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests
 INVENTOR(S): Annia, Gary David; Myers, Brian James; Selby, Thomas Paul; Stevenson, Thomas Martin; Zimmerman, William Thomas
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 180 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002048115	A2	20020620	WO 2001-US46629	20011203
WO 2002048115	A3	20020906		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MY, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002027243	A5	20020624	AU 2002-27243	20011203
EP 1341772	A2	20030910	EP 2001-996125	20011203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004515543	T	20040527	JP 2002-549646	20011203
US 2004110777	A1	20040610	US 2003-43368	20031014
PRIORITY APPLN. INFO.:				US 2000-254614P
				P 20001211
				WO 2001-US46629
				W 20011203

OTHER SOURCE(S): MARPAT 137:47212
 GI

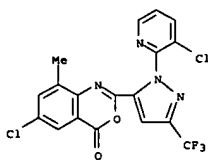


L4 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The title compds. [I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous linking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R4; R1 = O, alkyl, cycloalkyl, etc.; O = (un)substituted Ph, 5-6 membered heteroarom. ring, etc.; R4 = H, alkyl, haloalkyl, etc.; n = 1-4], useful for controlling invertebrate pests, were prepared. E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in in test on diamondback moth (*Plutella xylostella*)/radish plant, was given. This invention also pertains to certain compds. I and compns. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents.

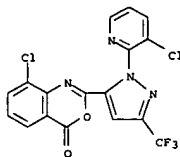
IT 438450-40-9P, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one
 438450-42-1P, 8-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-4H-3,1-benzoxazin-4-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests)

RN 438450-40-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 438450-42-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:435924 CAPLUS
 DOCUMENT NUMBER: 137:306478
 TITLE: Inhibition of cathepsin G by
 2-amino-3,1-benzoxazin-4-

AUTHOR(S): ones: Kinetic investigations and docking studies
 Gtaschow, Michael; Kuerschner, Lars; Pietsch, Markus;
 Ambroak, Agnieszka; Neumann, Ulf; Gnther, Robert;
 Hofmann, Hans-Jrg

CORPORATE SOURCE: University of Bonn, Pharmaceutical Institute,
 Poppelendorf, Bonn, D-53115, Germany
 SOURCE: Archives of Biochemistry and Biophysics (2002),
 402(2), 180-191
 CODEN: ABBIA4; ISSN: 0003-9861

PUBLISHER: Elsevier Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:306478

AB A series of benzoxazinones was used to investigate the interaction of
 human cathepsin G with acyl-enzyme inhibitors. With respect to the
 primary specificity of cathepsin G, inhibitors with hydrophobic or basic
 residues at position 2 were included in the study. Parameters of the
 enzyme acylation and deacylation were determined by slow-binding

kinetics in the presence of a chromogenic substrate. For selected inhibitors, the
 time course of the enzyme-catalyzed conversion of the inhibitors was
 followed. This approach was suitable to elucidate a rate-determining
 deacylation step. Docking simulations of the noncovalent

enzyme-inhibitor complexes were performed and several clusters were analyzed for each
 inhibitor. The amino acids of the active site that participate in the
 binding of the inhibitors were determined. The arrangements in several
 clusters

of an inhibitor were not uniform with respect to the orientation by which
 the inhibitor was bound in the S1 pocket. Docking of the basic
 piperazino

derives, 6 and 10 indicated an interaction with Glu 226 at the bottom of
 the S1 specificity pocket. The (N-methyl)benzylamino derivative 1
 showed the strongest acylation rate ($k_{on}=1200\text{ M}^{-1}\text{ s}^{-1}$), which was attributed to a
 high extent of pseudo-productive orientations of the noncovalent
 preassocn. complex.

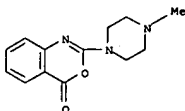
IT 233684-07-6
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (mol. modeling reveals uniform feature for participation of amino

acids of active site of cathepsin G in binding 2-amino-3,1-benzoxazin-4-one
 analog inhibitors)

RN 233684-07-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,7-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX
 NAME)

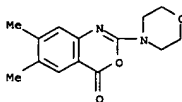
L4 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 471246-75-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX
 NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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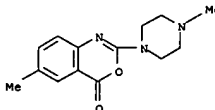
L4 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 471246-74-9P
 RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant
 or reagent)
 (mol. modeling reveals uniform feature for participation of amino

acids of active site of cathepsin G in binding 2-amino-3,1-benzoxazin-4-one
 analog inhibitors)

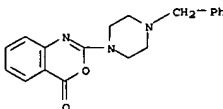
RN 471246-74-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-methyl-2-(4-methyl-1-piperazinyl)- (9CI) (CA
 INDEX NAME)



IT 471246-73-8P 471246-75-0P
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
 BIOL (Biological study); PREP (Preparation)
 (mol. modeling reveals uniform feature for participation of amino

acids of active site of cathepsin G in binding 2-amino-3,1-benzoxazin-4-one,
 analog inhibitors)

RN 471246-73-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA
 INDEX NAME)



L4 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:314439 CAPLUS
 DOCUMENT NUMBER: 135:146775
 TITLE: Inhibition of human chymase by

2-amino-3,1-benzoxazin-4-

ones
 Neumann, U.; Schechter, N. M.; Gutachow, M.
 CORPORATE SOURCE: Novartis Pharma AG, Basel, CH-4002, Switz.
 SOURCE: Bioorganic & Medicinal Chemistry (2001), 9(4),
 947-954
 CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB A series of 2-a-amino-4H-3,1-benzoxazin-4-ones was evaluated as
 acyl-enzyme inhibitors of human recombinant chymase. The compds. were
 also assayed for inhibition of human cathepsin G, bovine chymotrypsin,
 and

human leukocyte elastase. Introduction of an aromatic moiety into the
 2-substituent resulted in strong inhibition of chymase, cathepsin G, and
 chymotrypsin. Extension of the N(Me)CH2Ph substituent by one methylene
 unit was unfavorable to inhibit these proteases. Towards chymase,
 2-(N-benzyl-N-methylamino)-4H-3,1-benzoxazin-4-one and
 2-(N-benzyl-N-methylamino)-6-methyl-4H-3,1-benzoxazin-4-one (I) were
 found

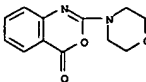
to exhibit K_i values of 11 and 17 nM, resp., and form stable acyl-enzymes
 with half-lives of 53 and 25 min, resp. Benzoxazinone I also inhibited
 the human chymase-catalyzed formation of angiotensin II from angiotensin
 I. A series of 2-a-amino-4H-3,1-benzoxazin-4-ones was evaluated as
 acyl-enzyme inhibitors of human chymase. The inhibition of the
 chymase-catalyzed formation of angiotensin II from angiotensin I by a
 selected benzoxazinone was shown.

IT 23494-28-2 123102-14-7 233684-07-6

233684-08-7
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological

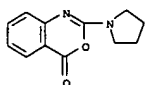
study, unclassified); BIOL (Biological study)
 (inhibition of human chymase by 2-aminobenzoxazinones in relation to
 effect on other proteases and structure and angiotensin II formation)

RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

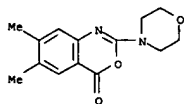


RN 123102-14-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

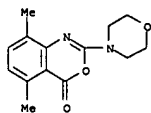
L4 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 233684-07-6 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6,7-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 233684-08-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 5,8-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



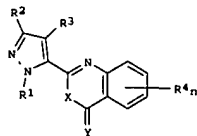
IT 352662-93-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(inhibition of human chymase by 2-aminobenzoxazinones in relation to effect on other proteases and structure and angiotensin II formation)
RN 352662-93-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-methyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:56882 CAPLUS
DOCUMENT NUMBER: 134:96632
TITLE: Pyrazolylbenzoxazines or -benzothiazines and agrochemical microbicides containing them
INVENTOR(S): Niki, Toshio; Matenabe, Junichi; Hayazaka, Fumio; Suzuki, Hiroyuki; Yamakishi, Kazuhiro
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAP
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001019691	A	20010123	JP 1999-194734	19990708
PRIORITY APPLN. INFO.:			JP 1999-194734	19990708

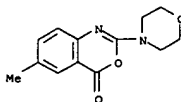
OTHER SOURCE(S): MARPAT 134:96632
GI



AB Agrochem. microbicides, especially useful for control of Pyricularia oryzae and wheat diseases, contain title compds. I (R1 = H, Cl-6 alkyl, (unsubstituted Ph; R2, R3 = H, halo, Cl-6 alkyl; R4 = H, halo, cyano, nitro, Cl-6 alkyl(carbonyl), alkoxy(carbonyl), haloalkyl, OH, CO2H, (unsubstituted phenyl(oxy); X, Y = O, S; n = 0-4). 2-(3-Chloro-1-methylpyrazol-5-ylcarbonylamino)benzoic acid (1.6 g) was heated in Ac2O under reflux for 2 h to give 1.07 g I (R1 = Me, R2 = Cl, R3 = H, X = Y = O, n = 0), which was applied to rice at 10 ppm to show 99% control of P. oryzae.

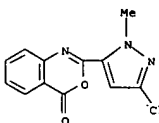
IT 319915-22-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PRSP (Preparation); USES (Uses)
(preparation of pyrazolylbenzoxazines or -benzothiazines as agrochem. microbicides)
RN 319915-22-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3-chloro-1-methyl-1H-pyrazol-5-yl)- (9CI)
(CA INDEX NAME)

L4 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 30
THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

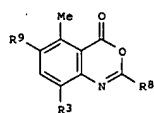


L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:50484 CAPLUS
 DOCUMENT NUMBER: 134:100878
 TITLE: Preparation of 2-aminobenzoxazinones for treatment of Herpes simplex virus infection.
 INVENTOR(S): Kawanishi, Masashi; Takahashi, Wataru
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Asahi Chemical Industry Co., Ltd.
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

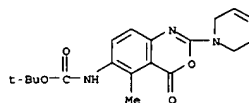
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001003697	A1	20010118	WO 2000-US18817	20000711
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
CA 2378014	A1	20010118	CA 2000-2378014	20000711
EP 1210088	A1	20020605	EP 2000-948615	20000711
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000012380	A	20020827	BR 2000-12380	20000711
JP 2003504334	T	20030204	JP 2001-508977	20000711
AU 774370	B2	20040624	AU 2000-62089	20000711
ZA 2002000311	A1	20020114	ZA 2002-311	20020114
US 6806269	B1	20041019	US 2002-30414	20020524
AU 2004203884	A1	20040909	AU 2004-203884	20040813
US 2005032795	A1	20050210	US 2004-938501	20040913
PRIORITY APPLN. INFO.:			US 1999-142956P	P 19990712
			WO 2000-US18817	W 20000711
			US 2002-30414	A1 20020524

OTHER SOURCE(S): MARPAT 134:100878
 GI

L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

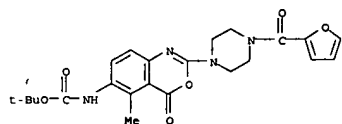


AB Title compds. (I; R8 = amino optionally substituted by 2 alkyl, aralkyl, heterocyclylalkyl, heterocyclyl, aryl; R9 = NHCOR30, R31NHCOR30, NHSO2R32;
 R30 = alkyl, alkoxy, alkylamino, carboxyalkyl, alkoxyalkyl, arylamino, aryloxy, heterocycloalkoxy, etc.; R31 = alkyl; R32 = alkyl, aryl; R3 = H, halo, alkyl), were prepared. Thus, trimethylsilyl ethyl 6-amino-3-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-methylbenzoate was stirred 3 h with p-nitrophenyl chloroformate in CH2Cl2 followed by addition of Me(PhCH2)NH and stirring for 15 h. Tetrafluorophthalic anhydride in CH2Cl2 was added followed by 3 h stirring and addition of polyamine resin to give trimethylsilyl ethyl 3-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-methyl-6-[[[methyl(phenylmethyl)amino]carbonyl]amino]benzoate. This was stirred with Bu4NF in THF to give 3-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-methyl-6-[[[methyl(phenylmethyl)amino]carbonyl]amino]benzoic acid. The latter was stirred 2 h with P-EDC to give 6-[[[(1,1-dimethylethoxy)carbonyl]amino]-5-methyl-2-[[methyl(phenylmethyl)amino]-4H-3-benzoxazin-4-one. This showed an EC50 = 1.1 µM against HSV.
 IT 319909-68-7P 319909-70-1P 319909-72-3P 319909-73-4P 319909-80-3P 319909-83-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 2-aminobenzoxazinones for treatment of Herpes simplex virus infection)
 RN 319909-68-7 CAPLUS
 CN Carbamic acid, [2-(3,6-dihydro-1(2H)-pyridinyl)-5-methyl-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

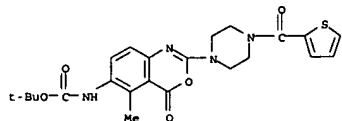


L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

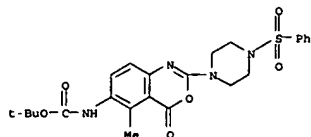
RN 319909-70-1 CAPLUS
 CN Carbamic acid, [2-(4-(2-furanylcarbonyl)-1-piperazinyl)-5-methyl-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 319909-72-3 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[4-(2-thienylcarbonyl)-1-piperazinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

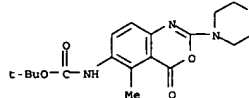


RN 319909-73-4 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[4-(phenylsulfonyl)-1-piperazinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

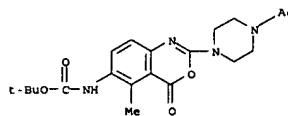


RN 319909-80-3 CAPLUS
 CN Carbamic acid, [5-methyl-2-(4-morpholinyl)-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

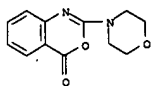


RN 319909-83-6 CAPLUS
 CN Carbamic acid, [2-(4-acetyl-1-piperazinyl)-5-methyl-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

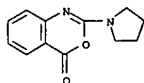


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L4 ANSWER 36 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:726575 CAPLUS
 DOCUMENT NUMBER: 134:239338
 TITLE: Novel bleach activators
 AUTHOR(S): Dixon, N. J.
 CORPORATE SOURCE: Warwick International Ltd, Holywell, UK
 SOURCE: Rivista Italiana delle Sostanze Grasse (2000), 77(3), 105-110
 CODEN: RISGAD; ISSN: 0035-6808
 PUBLISHER: Stazione Sperimentale per le Industrie degli Oli e dei Grassi
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The leading bleach activator in European laundry for the last 20 yr has been TAED. It is cost effective, environmentally friendly and provides effective bleaching as low as 40°C. The search for alternatives to TAED (the leading bleach activator in European laundry for the last 20 yr) has been going on since it was first launched on the detergents market in 1979. At Warwick International, we have tested around 1000 bleach activators and have assessed them for their wash performance, environmental effects, cost and ease of synthesis. To illustrate this work we will present the results of our investigations into the potent bleach activators 2-substituted-3,1-benzoxazinones.
 IT 23494-28-2 123102-14-7 123102-15-8
 RL: TEM (Technical or engineered material use); USES (Uses) (testing of benzoxazinones as activators for laundry bleaches)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



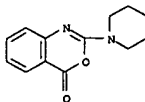
RN 123102-14-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 123102-15-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(1-piperidinyl)- (9CI) (CA INDEX NAME)

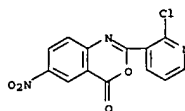
L4 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:564504 CAPLUS
 DOCUMENT NUMBER: 133:317220
 TITLE: Inhibitors of the tissue factor/factor VIIa-induced coagulation: synthesis and in vitro evaluation of novel specific 2-aryl substituted ones
 4H-3,1-benzoxazin-4-ones
 AUTHOR(S): Jakobsen, P.; Ritsmar Pedersen, B.; Persson, E.
 CORPORATE SOURCE: Novo Nordisk Park, Medicinal Chemistry Research, Novo Nordisk A/S, Maaloev, DK-2760, Den.
 SOURCE: Bioorganic & Medicinal Chemistry (2000), 8(8), 2095-2103
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The synthesis of a series of novel 2-aryl substituted 4H-3,1-benzoxazin-4-ones and their evaluation as specific inhibitors of the Tissue Factor (TF)/Factor VIIa (FVIIa)-induced pathway of coagulation is reported. Inhibitory activities (IC50 values) in the range 0.17 to *40 µM on the activation of Factor X (FX) by the TF/FVIIa complex were found for compds. having one or two electroneg. substituents such as F, Cl and NO2 in the 2-aryl substituent. Different substitutions both electron-attracting and donating groups were allowed in the 5, 6, 7 and 8 positions. Several of the compds. showed a selectivity ratio towards FX and thrombin of *50, thus being the first small mole. described as potential drugs for oral antithrombotic treatment without side effects such as bleeding which is observed especially with thrombin inhibitors.
 The best substituent pattern being the 2-aryl group substituted with: 2-F; 2,6-F2; or 2-FX; 6-Cl; together with electroneg. substitution in the 5, 6, 7, or 8 positions. 2-Heteroaryl substituents like thienyl and furanyl were of low activity while some 2-(2-chloro-3-pyridyl) deriva. had inhibitory activity <10 µM and a good selectivity.
 IT 244205-88-7P 244205-89-8P, 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-methyl- 244205-90-1P 244206-14-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and synthesis of aryl substituted benzoxazinones as anticoagulants)
 RN 244205-88-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 36 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

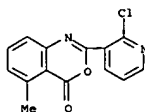


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.
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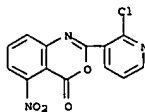
L4 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



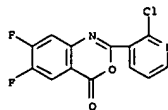
RN 244205-89-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-methyl- (9CI) (CA INDEX NAME)



RN 244205-90-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-nitro- (9CI) (CA INDEX NAME)



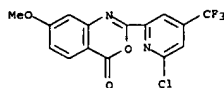
RN 244206-14-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6,7-difluoro- (9CI) (CA INDEX NAME)



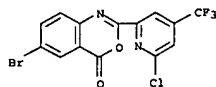
IT 302761-09-7 302761-14-4
 RL: BAC (Biological activity or effector, except adverse); BSU

L4 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
study, unclassified); THU (Therapeutic use); BIOL (Biological study);

USES
(Uses)
(prepn. and synthesis of aryl substituted benzoxazinones as
anticogulants)
RN 302761-09-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[6-chloro-4-(trifluoromethyl)-2-pyridinyl]-7-methoxy- (9CI) (CA INDEX NAME)



RN 302761-14-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-bromo-2-[6-chloro-4-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

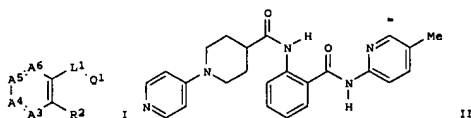
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:457059 CAPLUS
DOCUMENT NUMBER: 133:89437
TITLE: Preparation of heteroaryl-substituted aromatic amides as factor Xa inhibitors
INVENTOR(S): Beight, Douglas Wade; Craft, Trelia Joyce; Denny, Carl
Penman; Franciskovich, Jeffery Bernard; Goodson, Theodore, Jr.; Hall, Steven Edward; Herron, David Kent; Joseph, Sajjan Pariyadan; Klimkowski, Valentine Joseph; Masters, John Joseph; Mendel, David; Milot, Guy; Pineiro-Nunez, Marta Maria; Sawyer, Jason Scott; Shuman, Robert Theodore; Smith, Gerald Floyd; Tebbe, Anne Louise; Tinsley, Jennifer Marie; Weir, Leonard Crayton; Wikel, James Howard; Wiley, Michael Robert; Yee, Ying Kwong
El: Lilly and Co., USA; Kyle, Jeffrey, Alan; et al.
PCT Int. Appl., 403 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039118	A1	20000706	WO 1999-US29946	19991215
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MM, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LJ, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2361149	A1	20000706	CA 1999-2361149	19991215
EP 1140903	A1	20011010	EP 1999-964279	19991215
EP 1140903	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 200253454	T	20021008	JP 2000-591029	19991215
AT 272633	T	20040815	AT 1999-964279	19991215
ES 2226485	T3	20050316	ES 1999-964279	19991215
US 6635657	B1	20031021	US 2001-857751	20010608
US 2004029874	A1	20040212	US 2003-629760	20030729
US 6759414	B2	20040706		
US 2005282862	A1	20051222	US 2003-629817	20030729
US 7129245	B2	20061031		
PRIORITY APPLN. INFO.:				
			US 1998-113556P	P 19981223
			WO 1999-US29946	W 19991215
			US 2001-857751	A3 20010608

OTHER SOURCE(S): MARPAT 133:89437
G1

L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. [I; A3-A6, together with the two carbons to which they are attached, complete a substituted benzene in which A3 = CR3, A4 = CR4, A5 = CR5, and A6 = CR6 (wherein R3 = H, Me, MeO, etc.; one of R4 and R5 = H, alkyl, halo, etc.; the other of R4 and R5 = H; R6 = H, Me, F, etc.);

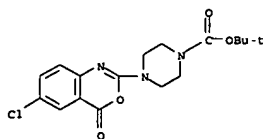
L1 = COMH; Q1 = 2-pyridinyl (un)substituted at the 5-position, 3-pyridinyl (un)substituted at the 6-position, 2-pyrimidinyl (un)substituted at the 5-position, etc.; R2 = L2Q2 (L2 = NHCO, NHCH2, OCH2, etc.; Q2 = (un)substituted piperidinyl, piperazinyl, Ph, etc.) and their pharmaceutically acceptable salts, useful as inhibitors of factor Xa (no data), were prepared and formulated. E.g., a multi-step synthesis of

II.HCl was given. In general, compds. I are effective at 0.01-1000 mg/kg/day.

IT 280772-10-3P 280772-44-3P 280772-50-1P
280772-56-7P 280772-62-5P 280772-68-1P
280772-79-4P 280772-84-1P 280772-89-6P
280772-94-3P 280773-03-7P 280773-10-6P
280773-27-5P 280773-36-6P 280773-49-1P
280773-54-8P 280773-69-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

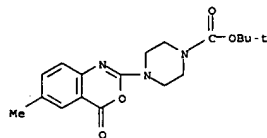
(preparation of heteroaryl-substituted aromatic amides as factor Xa inhibitors)

RN 280772-10-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-(6-chloro-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

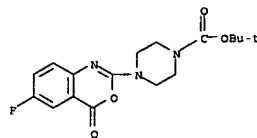


RN 280772-44-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-(6-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

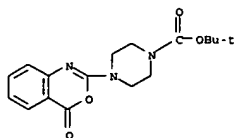
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280772-50-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-(6-fluoro-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

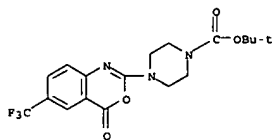


RN 280772-56-7 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-(4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

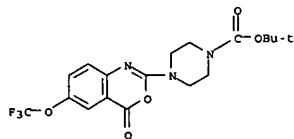


RN 280772-62-5 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-oxo-6-(trifluoromethyl)-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

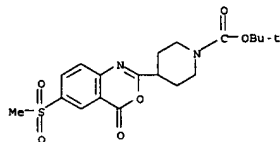
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280772-68-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-oxo-6-(trifluoromethoxy)-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

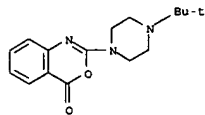


RN 280772-79-4 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[6-(methanesulfonyl)-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

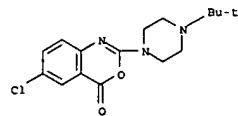


RN 280772-84-1 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[6-[(dimethylamino)sulfonyl]-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

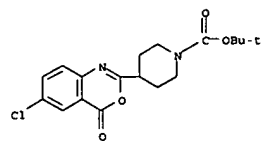
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280773-10-6 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[4-(1,1-dimethylethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

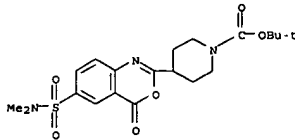


RN 280773-27-5 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[6-chloro-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

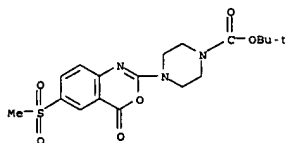


RN 280773-36-6 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[5-chloro-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

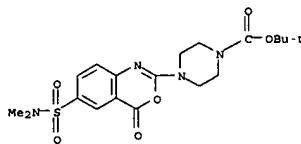
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280772-89-6 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[6-(methanesulfonyl)-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

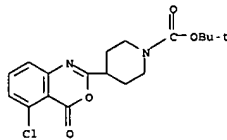


RN 280772-94-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[6-[(dimethylamino)sulfonyl]-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

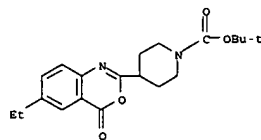


RN 280773-03-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[4-(1,1-dimethylethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

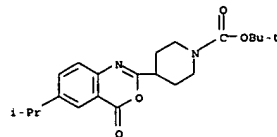
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280773-49-1 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[6-ethyl-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

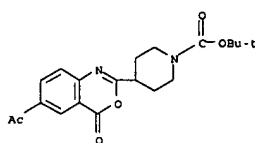


RN 280773-54-8 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[6-(1-methylethyl)-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 280773-69-5 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[6-acetyl-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

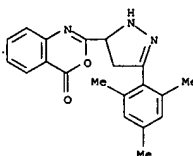


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

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L4 ANSWER 39 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:92318 CAPLUS
DOCUMENT NUMBER: 132:279169
TITLE: Synthesis and reactions of 2-[2-(2,4,6-trimethylbenzoyl)vinyl]-4H-3,1-benzoxazin-4-one of expected biological activity
AUTHOR(S): Abdel-Pattah, M. E.; Soliman, E. A.; Soliman, S. M. A.
CORPORATE SOURCE: Chemistry Department, Faculty of Science, Suez Canal University, Ismailia, Egypt
SOURCE: Egyptian Journal of Chemistry (1999), 42(6), 499-516
CODEN: EJCJCAJ; ISSN: 0449-2285
PUBLISHER: National Information and Documentation Centre
DOCUMENT TYPE: Journal
LANGUAGE: English
AB P-(2,4,6-Trimethylbenzoyl)acryloyl chloride reacts with anthranilic acid to give theamide which is easily cyclized by acetic anhydride to give the title benzoxazinone (I). I was cyclized with NH_4 to give the 3-aryl-5-pyrazolylbenzoxazinone. The behavior of this compound towards aromatic aldehydes, ketones, phthalic anhydride and phthalylamino acid chlorides has been investigated. Reactions of I with o-phenylenediamine, ammonia, Grignard reagents, Friedel-Crafts reagents and bromine are described. The products showed a range of antibacterial activity.
IT 234103-62-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation of trimethylbenzoylvinylbenzoxazinones and pyrazolylbenzoxazinones with bactericidal activity)
RN 234103-62-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[4,5-dihydro-3-(2,4,6-trimethylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

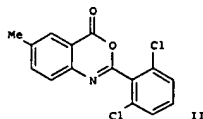
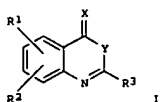
FORMAT

L4 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:626181 CAPLUS
DOCUMENT NUMBER: 131:243274
TITLE: Preparation of benzoxazinone derivatives as factor VII inhibitors for the treatment of coagulation-related diseases
INVENTOR(S): Persson, Egon; Jakobsen, Palle; Worsaae, Helle
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

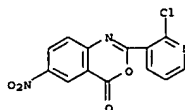
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9948878	A1	19990930	WO 1999-DK138	19990317
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9928260	A	19991018	AU 1999-28260	19990317
US 6180625	B1	20010130	US 1999-274448	19990322
PRIORITY APPLN. INFO.:			DK 1998-413	A 19980324
			DK 1998-464	A 19980402
			DK 1998-1559	A 19981126
			US 1998-111673P	P 19980408
			US 1998-81068P	P 19980408
			WO 1999-DK138	W 19990317

OTHER SOURCE(S): MARPAT 131:243274
GI

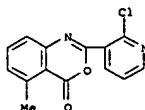


L4 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB Benzoxazinone derivs. (I) [where X and Y = O, S, or NH; R1 and R2 = independently (un)substituted (cyclo)alkyl, alkenyl, or alkynyl, H, halogen, alkoxy, alkylthio, carboxy, carbamoyl, sulfamoyl, (alkyl)Ph, tetrazolyl, etc.; R3 = (un)substituted (hetero)aryl, halogen, alkoxy, alkylthio, carboxy, carbamoyl, sulfamoyl, (alkyl)Ph, tetrazolyl, etc.] were prepared as inhibitors of factor VIIa-tissue factor activity. For example, 2,6-dichlorobenzoyl chloride was added to 2-amino-5-methylbenzoic acid in toluene and TEA to yield 2-(2,6-dichlorophenyl)-6-methyl-4H-3,1-benzoxazin-4-one (III). Selected compds. of the invention were subjected to a FVIIa/TF-catalyzed FX activity assay or FVIIa/TF-induced plasma clotting assay. Example compds. gave IC50 values ranging from 0.32 to 5.6 μM for the TF/FVII/FX assay and displayed clot ratios of 1.6 to > 30% in the clotting assay. The benzoxazinones are claimed to be useful for the treatment of coagulation-related diseases, such as deep vein thrombosis, pulmonary embolism, stroke, disseminated intravascular coagulation, vascular restenosis, platelet deposition, myocardial infarction, or atherosclerosis.
IT 244205-88-7P, 2-(2-Chloropyridin-3-yl)-6-nitro-4H-3,1-benzoxazin-4-one 244205-89-8P, 2-(2-Chloropyridin-3-yl)-5-methyl-4H-3,1-benzoxazin-4-one 244205-90-1P, 2-(2-Chloropyridin-3-yl)-5-nitro-4H-3,1-benzoxazin-4-one 244206-14-2P, 2-(2-Chloropyridin-3-yl)-6,7-difluoro-4H-3,1-benzoxazin-4-one
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (target compound; preparation of benzoxazinone derivs. as factor VII inhibitors for the treatment of coagulation-related diseases)
RN 244205-88-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6-nitro- (9CI) (CA INDEX NAME)



RN 244205-89-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-methyl- (9CI) (CA INDEX NAME)

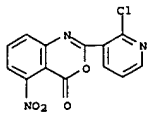


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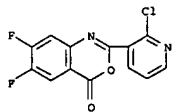
03/06/2007

L4 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 244205-90-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-nitro- (9CI) (CA INDEX NAME)



RN 244206-14-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6,7-difluoro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 41 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:371533 CAPLUS
 DOCUMENT NUMBER: 131:129959

TITLE: One-Pot Reactions of N-(Mesyloxy)phthalimides with Secondary Amines to 2-Ureidobenzamides, 2-Ureidobenzoic Acids, Ethyl 2-Ureidobenzoates, or Isatoic Anhydrides

AUTHOR(S): Guetschow, Michael
 CORPORATE SOURCE: Institute of Pharmacy, University of Leipzig, Leipzig,

SOURCE: D-04103, Germany
 Journal of Organic Chemistry (1999), 64(14), 5109-5115

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 131:129959

AB The reaction of N-(mesyloxy)phthalimides with secondary amines was examined

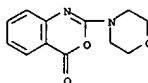
Transformations are accomplished by one-pot reactions to optionally afford

corresponding 2-ureidobenzamides, 2-ureidobenzoic acids, Et 2-ureidobenzoates, or isatoic anhydrides, resp. The mechanism of the acid-catalyzed hydrolysis (or alcoholysis) of intermediate 2-ureidobenzamides to 2-ureidobenzoic acids (or esters) is discussed. A proton transfer mechanism involving the ureido moiety as an internal acid catalyst is proposed. Intermediate 2-ureidobenzoic acids undergo a further transformation to isatoic anhydrides. The utilization of the obtained 2-ureidobenzamides, 2-ureidobenzoic acids, and Et 2-ureidobenzoates to prepare 3,1-benzoxazin-4-ones is demonstrated.

IT 23494-28-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (reaction of N-(mesyloxy)phthalimides with secondary amines)

RN 23494-28-2 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

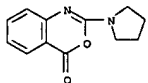


IT 123102-14-7P 233684-07-6P 233684-08-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (reaction of N-(mesyloxy)phthalimides with secondary amines)

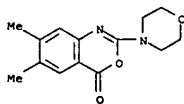
RN 123102-14-7 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

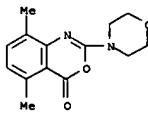
L4 ANSWER 41 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 233684-07-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,7-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 233684-08-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 5,8-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 42 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:285715 CAPLUS

DOCUMENT NUMBER: 131:129961

TITLE: Synthesis and reactions of 2-[2-(2,4,6-trimethylbenzoyl)vinyl]-4H-3,1-benzoxazin-4-one and antimicrobial activity

AUTHOR(S): Abdel-Fattah, M. E.; Soliman, E. A.; Soliman, S. M. A.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Suez Canal University Ismailia, Cairo, Egypt

SOURCE: Indian Journal of Heterocyclic Chemistry (1999), 8(3),

177-182

CODEN: IJCHEI; ISSN: 0971-1627

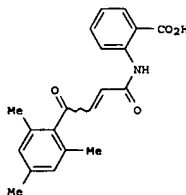
PUBLISHER: Prof. R. S. Varma

DOCUMENT TYPE: Journal

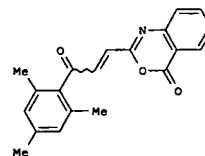
LANGUAGE: English

OTHER SOURCE(S): CASREACT 131:129961

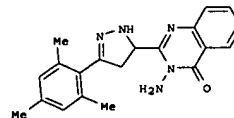
GI



I



II



III

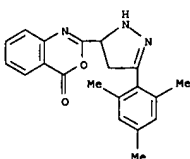
AB β -(2,4,6-Trimethylbenzoyl)-acryloyl chloride reacts with anthranilic acid to give adduct I which is cyclized by the action of acetic anhydride to give the benzoxazinone II. Condensation of II with hydrazine hydrate gave pyrazole III. The behavior of III towards aromatic aldehydes, ketones,

phthalic Anhydride, and amino acid chlorides has been investigated. Reaction of II with o-phenylenediamine, ammonia, Grignard reagents, Friedel-Crafts reaction and bromine has been described. Some of the compds. were tested for antibacterial activity; some were active against gram-neg. and gram-pos. bacterial.

IT 234103-62-9P

RL: BAC (Biological activity or effector, except adverse); BSU

L4 ANSWER 42 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and bactericidal activity of benzoxazinones and
 quinoxalinones)
 RN 234103-62-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[4,5-dihydro-3-(2,4,6-trimethylphenyl)-1H-
 pyrazol-5-yl]- (9CI) (CA INDEX NAME)



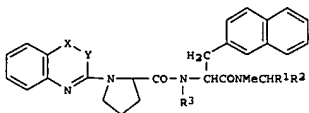
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L4 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:509212 CAPLUS
 DOCUMENT NUMBER: 129:149249
 TITLE: Preparation of heterocyclyl
 prolyl(naphthyl)alaninamides as tachykinin
 antagonists
 INVENTOR(S): Walpole, Christopher Simon John; Prashad, Mahavir;
 Har, Denis
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharmaceuticals UK
 Ltd.
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9831704	A2	19980723	WO 1997-EP7307	19971229
WO 9831704	A3	19980911		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GU, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RM: GH, GM, KE, LS, MM, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2278057	A1	19980723	CA 1997-2278057	19971229
CA 2278057	C	20040504		
AU 9857642	A	19980807	AU 1998-57642	19971229
EP 964867	A2	19991222	EP 1997-953927	19971229
EP 964867	B1	20050309		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000516257	T	20001205	JP 1998-533609	19971229
AT 290546	T	20050315	AT 1997-953927	19971229
PT 964867	T	20050729	PT 1997-953927	19971229
ES 2239368	T3	20050916	ES 1997-953927	19971229
IN 1998MA00065	A	20050304	IN 1998-MA65	19980109
ZA 9800256	A	19980714	ZA 1998-256	19980113
US 6107293	A	20000822	US 1999-341626	19990714
JP 2006089499	A	20060406	JP 2005-344056	20051129
JP 3817256	B2	20060906		
PRIORITY APPLN. INFO.:				
			GB 1997-597	A 19970114
			JP 1998-533609	A3 19971229
			WO 1997-EP7307	W 19971229

OTHER SOURCE(S): MARPAT 129:149249
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L4 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



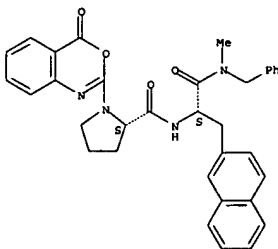
AB Title compds. I (X = CH2, CO, bond; Y = O, S, NH; R1 = Ph; R2 = H, Ph; R3 = H, Me) and their pharmaceutically acceptable salts were prepared as tachykinin antagonists. Thus, I (X = CO, Y = O, R1 = Ph, R2 = R3 = H)

was prepared by reaction of (S)-prolyl-(S)-3-(2-naphthyl)alanyl-N-benzyl-N-methylamide with 2-isocyanatobenzoyl chloride.

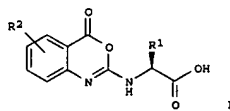
IT 210775-87-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of heterocyclyl prolyl(naphthyl)alaninamides as tachykinin antagonists)

RN 210775-87-4 CAPLUS
 CN L-Alaninamide, 1-[4-oxo-4H-3,1-benzoxazin-2-yl]-L-prolyl-N-methyl-3-(2-naphthalenyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



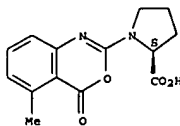
L4 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:243698 CAPLUS
 DOCUMENT NUMBER: 128:282812
 TITLE: Combinatorial approaches to pharmacophoric heterocycles: a solid-phase synthesis of 3,1-benzoxazine-4-ones
 AUTHOR(S): Gordeev, Mikhail F.
 CORPORATE SOURCE: Versicor, Inc., Fremont, CA, 94555, USA
 SOURCE: Biotechnology and Bioengineering (1998), 61(1), 13-16
 CODEN: BIBIAU; ISSN: 0006-3592
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB An efficient solid-phase synthesis of 3,1-benzoxazine-4-ones is described. Immobilized amino acid based functionalized urea derive. undergo a high yielding heterocyclization under mild conditions in presence of coupling reagents (DIC, TeCl/Py, or Ac2O) to afford 3,1-benzoxazine-4-ones I (R1 = CHMe2, Me, PhCH2, etc., R2 = H, Me, 6-OH, etc.). The method offers broad scope for structural and chemical diversity, and is amenable for combinatorial synthesis of 3,1-benzoxazine-4-ones libraries with potential

for discovery of novel serine protease inhibitors.
 IT 205656-62-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (solid phase synthesis of benzoxazinones as combinatorial approach)
 RN 205656-62-8 CAPLUS
 CN L-Proline, 1-(5-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



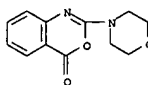
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR
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 RECORD. ALL CITATIONS AVAILABLE IN THE RE

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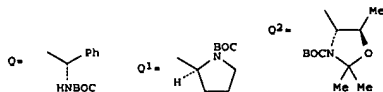
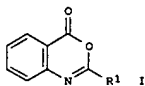
L4 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 45 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:723612 CAPLUS
 DOCUMENT NUMBER: 128:58885
 TITLE: Inhibition of cathepsin G by 4H-3,1-benzoxazin-4-ones
 AUTHOR(S): Gutschow, Michael; Neumann, Ulf
 CORPORATE SOURCE: Institute of Pharmacy, University of Leipzig, Leipzig,
 D-04103, Germany
 SOURCE: Bioorganic & Medicinal Chemistry (1997), 5(10), 1935-1942
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 128:58885
 AB A series of 4H-3,1-benzoxazin-4-ones is reported that inhibit the serine proteases human cathepsin G and bovine chymotrypsin. The synthesis and kinetic parameters of the alkaline hydrolysis is described. These compds. act as acyl-enzyme inhibitors of both enzymes. The reaction of cathepsin G with 2-benzylamino-4H-3,1-benzoxazin-4-one was studied in detail. A partition in deacylation of the initially formed acyl-enzyme was observed, leading to the formation of 2-(3-benzylureido)benzoic acid and 3-benzylquinazoline-2,4-(1H,3H)-dione. A 6-Me substitution strongly increased the acylation rate of both proteases. Introduction of an aryl moiety into the 2-substituent led to compds. with Ki values toward cathepsin G in the nanomolar range. Their inhibitory potency is stronger than that of other synthetic inhibitors of cathepsin G.
 IT 23494-28-2P
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent) (preparation of and inhibition of cathepsin G and chymotrypsin by 4H-3,1-benzoxazin-4-ones)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

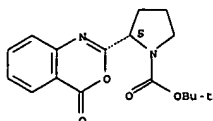


REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:723315 CAPLUS
 DOCUMENT NUMBER: 128:22874
 TITLE: Efficient synthesis of biologically important chiral 2-alkylamino benzoxazinones
 AUTHOR(S): Mohapatra, Debendra K.; Datta, Apurba
 CORPORATE SOURCE: Organic III, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
 SOURCE: Bioorganic & Medicinal Chemistry Letters (1997), 7(19), 2527-2530
 CODEN: BMECEP; ISSN: 0960-894X
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 128:22874
 Q1

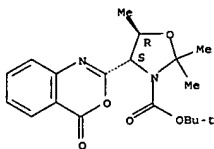


AB A novel general method has been developed for the synthesis of various amino acid derived chiral 2-substituted benzoxazinones, I (R1 = Q, Q1, Q2, etc.), known inhibitors of standard serine proteases of the chymotrypsin superfamily.
 IT 199392-41-1P 199392-42-2P 199392-43-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of (alkylamino)benzoxazinones)
 RN 199392-41-1 CAPLUS
 CN 1-Pyrrolidinecarboxylic acid, 2-(4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

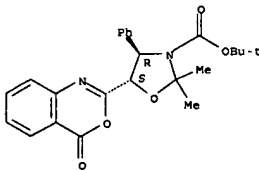


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L4 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RN 199392-42-2 CAPLUS
 CN 3-Oxazolidinecarboxylic acid, 2,2-dimethyl-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester, (4S-trans)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



RN 199392-43-3 CAPLUS
 CN 3-Oxazolidinecarboxylic acid, 2,2-dimethyl-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-4-phenyl-, 1,1-dimethylethyl ester, (4R-trans)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

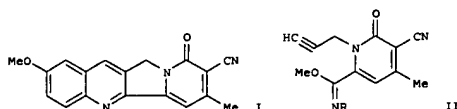


REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

03/06/2007

L4 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:487414 CAPLUS
 DOCUMENT NUMBER: 125:222232
 TITLE: Novel syntheses of camptothecin alkaloids. Part I. Intramolecular [4+2] cycloadditions of N-arylimidates and 4H-3,1-benzoxazin-4-ones as 2-aza-1,3-dienes
 AUTHOR(S): Fortunak, Joseph M. D.; Mastrocola, Antonietta R.; Mellinger, Mark; Sisti, Nicolas J.; Wood, Jeffery L.; Zhuang, Zhi-Ping
 CORPORATE SOURCE: Chem. Process Res. Dev., DuPont Merck Pharm. Co., Deepwater, NJ, 08023-0999, USA
 SOURCE: Tetrahedron Letters (1996), 37(32), 5679-5682
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 125:222232
 GI



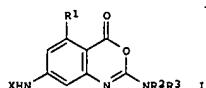
AB Intramol. [4+2] cycloaddns. of both N-arylimidates and (4H)-3,1-benzoxazin-4-ones acting as 2-aza-1,3-dienes were described. Reaction with unactivated alkynes lead to pyrrolo[3,4-b]quinolines containing the ABC ring system of camptothecin. E.g., 10-methoxycamptothecin precursor I was prepared by intramol. [4+2] cycloaddn. of a 4:1 isomeric mixture of O-methylimidate II (R = 4-MeOC6H4), which had been prepared by MeOBPh O-methylation of the corresponding N-(4-methoxyphenyl)-amide, followed by elimination of methanol.
 IT 181512-67-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis of camptothecin analogs via intramol. [4+2] cycloaddns. of N-arylimidates and 4H-3,1-benzoxazin-4-ones as 2-aza-1,3-dienes)
 RN 181512-67-4 CAPLUS
 CN 3-Pyridinecarboxitrile,
 1,2-dihydro-6-(6-hydroxy-4-oxo-4H-3,1-benzoxazin-2-yl)-4-methyl-2-oxo-1-(2-propynyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:241536 CAPLUS
 DOCUMENT NUMBER: 124:290265
 TITLE: Preparation of amino acid moiety-containing benzoxazines as elastase inhibitors
 INVENTOR(S): Oshida, Junichi; Kawabata, Hiroshi; Kato, Yoshinori; Kokubo, Masayuki; Ueshima, Yasuhide; Sato, Osami; Fujii, Katsuhiko
 PATENT ASSIGNEE(S): Teijin Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp. Division of Jpn. Kokai Tokkyo Koho Appl. NO. 91 504,791.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

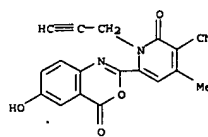
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07316056	A	19951205	JP 1994-272320	19941107
PRIORITY APPLN. INFO.:			JP 1991-504791	19910215

OTHER SOURCE(S): MARPAT 124:290265
 GI

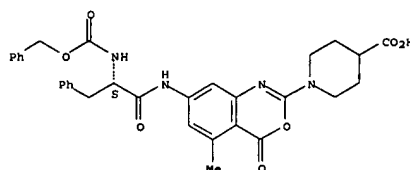


AB The title compds. I [R1 = H, alkyl; X = Y1A1, Y2(A2)MA3; when X is Y1A1: R2, R3 = H, (carboxy)alkyl, or NR2R3 = ring; when X is Y2(A2)MA3: R2 = alkyl, R3 = H; Y1 = amino-protecting group; Y2 = H, sulfonyl; A1, A2 = amino acid residue, etc.; A3 = lysine residue, etc.; m = 0 or 1] are prepared 7-(N-benzoyloxycarbonyl-L-phenylalanyl)amino-5-methyl-2-(1-carboxyethyl)amino-4H-3,1-benzoxazin-4-one (preparation given) in vitro showed IC50 values of 5.1 x 10-8 M and 1.5 x 10-6 M against elastase and chymotrypsin, resp.
 IT 138006-70-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of amino acid moiety-containing benzoxazines as elastase inhibitors)
 RN 138006-70-9 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[5-methyl-4-oxo-7-[[1-oxo-3-phenyl-2-[[[phenylmethoxy]carbonyl]amino]propyl]amino]-4H-3,1-benzoxazin-2-yl]]-, (S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

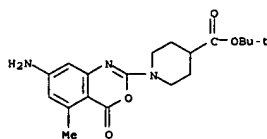
L4 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

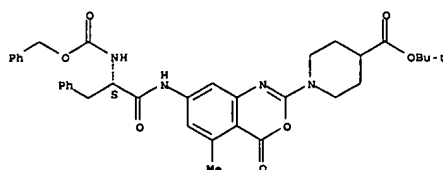


IT 175594-80-6P 175594-81-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of amino acid moiety-containing benzoxazines as elastase inhibitors)
 RN 175594-80-6 CAPLUS
 CN 4-Piperidinecarboxylic acid,
 1-(7-amino-5-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 175594-81-7 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[5-methyl-4-oxo-7-[[1-oxo-3-phenyl-2-[[[phenylmethoxy]carbonyl]amino]propyl]amino]-4H-3,1-benzoxazin-2-yl]]-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 49 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:493544 CAPLUS
 DOCUMENT NUMBER: 123:4277
 TITLE: 3,1-Benzothiazin-4-ones and 3,1-benzoxazin-4-ones: highly different activities in chymotrypsin inactivation
 AUTHOR(S): Neumann, U.; Gutschow, M.
 CORPORATE SOURCE: Friedrich Miescher Inst., Basel, 4002, Switz.
 SOURCE: Bioorganic Chemistry (1995), 23(1), 72-88
 CODEN: BOCHMB; ISSN: 0045-2068
 PUBLISHER: Academic
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB 3,1-Benzothiazin-4-ones are sulfur analogs of the potent serine protease inactivators of the 3,1-benzoxazin-4-one type, which acylate the serine residue within the active site of the enzymes. A series of 2-amino-3,1-benzothiazinones was synthesized, but these compds. showed only very little inhibitory activity toward chymotrypsin, a model serine protease. Detailed investigations revealed that benzothiazinones and benzoxazinones react with identical mechanisms, but benzothiazinones acylate chymotrypsin with much lower rate consts. Investigations of nonenzymic hydrolysis showed the benzothiazinones to be intrinsically

more stable than benzoxazinones. It was concluded from spectroscopic results, that benzoxazinones are highly activated due to the absence of ester-like resonance. 2-Benzoylamino-4H-3,1-benzoxazin-4-one was a new, highly active chymotrypsin inactivator. In contrast, benzothiazinones were resonance stabilized. The contribution of a resonance structure with an exocyclic oxanion to the overall structure of the benzothiazinones and

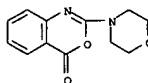
its nonproductive binding to the active site explained their low reactivity toward chymotrypsin.

IT 23494-28-2
 RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)

(3,1-benzothiazin-4-ones and 3,1-benzoxazin-4-ones have highly different activities in chymotrypsin inactivation)

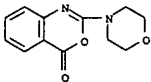
RN 23494-28-2 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



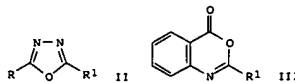
L4 ANSWER 50 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:285745 CAPLUS
 DOCUMENT NUMBER: 120:285745
 TITLE: Crystal structure of 2-(morpholin-4-yl)-4H-3,1-benzoxazin-4-one, C12H12N2O3
 AUTHOR(S): Pink, M.; Sieler, J.; Gutschow, M.
 CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Leipzig, Leipzig, D-04103, Germany
 SOURCE: Zeitschrift fuer Kristallographie (1993), 207(2), 319-21
 CODEN: ZEKRDZ; ISSN: 0044-2968
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The title compound is monoclinic, space group P21/c, with a 9.733(2), b 10.789(2), c 11.363(2) Å, β 112.576(9)°; Z = 4, R = 0.044. Atomic coordinates are given.
 IT 23494-28-2
 RL: PRP (Properties)
 (crystal structure of)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 51 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:8535 CAPLUS
 DOCUMENT NUMBER: 120:8535
 TITLE: N,N-Dimethylchlorosulfitemethaniminium chloride as a dehydrating agent. An efficient one-pot synthesis of 1,3,4-oxadiazoles and 4H-3,1-benzoxazin-4-ones
 AUTHOR(S): Sain, Bir; Sandhu, Jagir S.
 CORPORATE SOURCE: Div. Drugs Pharm. Chem., Reg. Res. Lab., Jorhat, 785 006, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1992), 31B(11), 768-70
 CODEN: IJSRDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 120:8535
 GI

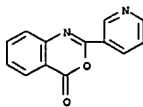


AB RCONHNH2 (R = Ph, 4-ClC6H4, 4-O2NC6H4, 4-MeC6H4, 4-MeOC6H4, 2-thienyl) cyclocondense with R1CO2H (R1 = Ph, 4-ClC6H4, 4-O2NC6H4, 4-MeC6H4, 4-MeOC6H4, 3-pyridyl, 2-thienyl) in the presence of Me2N-CHOSOCI Cl- (I) to yield 1,3,4-oxadiazoles II. The reaction between anthranilic acid and R1CO2H (R1 = Ph, 4-ClC6H4, 4-O2NC6H4, 4-MeC6H4, 4-MeOC6H4, 3-pyridyl, Me, 2-ClC6H4, 2-MeC6H4) in the presence of I affords benzoxazinones III.

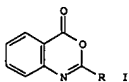
IT 53180-68-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 53180-68-0 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 52 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992:128827 CAPLUS
 DOCUMENT NUMBER: 116:128827
 TITLE: 2-Aryl-substituted 4H-3,1-benzoxazin-4-ones as novel active substances for the cardiovascular system
 AUTHOR(S): Rose, Ulrich
 CORPORATE SOURCE: Inst. Pharm., Johannes Gutenberg-Univ., Mainz, D-6500/1, Germany
 SOURCE: Journal of Heterocyclic Chemistry (1991), 28(8), 2005-12
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 116:128827
 GI



AB Cyclization of 2-H2NC6H4CO2H with aromatic carboxylic acids in the presence of POCl3 gave title compds. I (R = hetaryl, CH:CHC6H4F-4, 2,4-dimethoxyphenyl, etc.). The introduction of the phosphonate group, e.g. I [R = 4-C6H4CH2P(O)(OR)2, R1 = Me, Et] was achieved by way of Wohl-Ziegler bromination and subsequent Michaelis-Arbuzov reaction with trialkyl phosphite. Pharmacol. investigations on isolated left atria, ileum specimens, and Langendorff hearts as well as in vivo circulatory studies on anesthetized rats revealed that the phosphonates exert calcium antagonistic effects. Whereas 2-(arylviny)benzoxazinones gave pronounced neg. inotropic effects, I (R = 2,4-(MeO)2C6H3) exhibited relaxing effects on smooth musculature in particular and markedly increased the coronary flow through Langendorff hearts.
 IT 139355-74-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and cardiovascular activity of)
 RN 139355-74-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-(methylthio)-3-pyridinyl)- (9CI) (CA INDEX NAME)

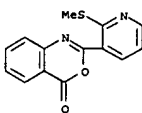
L4 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992:21062 CAPLUS
 DOCUMENT NUMBER: 116:21062
 TITLE: Preparation of 7-(peptidylamino)-4H-3,1-benzoxazin-4-one compound and elastase inhibitor composition containing same
 INVENTOR(S): Oshida, Junichi; Kawabata, Hiroshi; Kato, Yoshinori; Kokubo, Masayuki; Uejima, Yasuhide; Sato, Osami; Fujii, Katsuhiko
 PATENT ASSIGNEE(S): Teijin Ltd., Japan
 SOURCE: PCT Int. Appl., 101 pp., CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9112245	A1	19910822	WO 1991-JP183	19910215
W: AU, CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, NL, SE				
CA 2051115	A1	19910816	CA 1991-2051115	19910215
AU 9173250	A	19910903	AU 1991-73250	19910215
AU 635403	B2	19930318		
EP 466944	A1	19920122	EP 1991-904621	19910215
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
PRIORITY APPLN. INFO.:			JP 1990-32440	A 19900215
			WO 1991-JP183	A 19910215

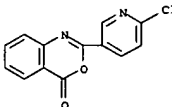
OTHER SOURCE(S): MARPAT 116:21062
 GI For diagram(s), see printed CA issue.
 AB The title compds. [I: X = Y1A1, Y2(A2)MA3; A1 = amino acid residue, peptide residue comprising 2 or 3 amino acid residues; A2 = Gly, Ala, Val, Leu, dipeptide residue containing these amino acid residues; A3 = (side-chain protected) Lys, Glu, or Asp; Y1 = amino-protecting group; Y2 = H, SO3H; provided that when the side-chain of A3 is protected, Y2 = H; m = 0, 1; when X = Y1A1, R2 = alkyl containing 1 or 2 CO2H, and R3 = H, alkyl containing 1 or 2 alkyl or CO2H, or NR2R3 forming a 6- to 7-membered ring optionally substituted with 1 or 2 alkyl or CO2H; when X = Y2(A2)MA3, R2 = alkyl and R3 = H], which show particularly a selective inhibiting effect on a human leukocyte elastase and excellent H2O-solubility and residence in the lung tissue, are prepared. Thus, treatment of BOC-Lys(COCMe3)-OH with iso-BuO2CCl in THF containing N-methylmorpholine at -15° followed by I (R1 = Me, R2 = Me2CH, R3 = X = H) (preparation given) gave I [R1, R2, R3 = unchanged; X = BOC-Lys(OCMe3)] which was deprotected with 4N HCl in dioxane, treated with Me3SiNHHSiMe3 in CH2Cl2, and then condensed with 4-ClC6H4SO2Cl in the presence of Et3N to give I [R1, R2, R3 = unchanged; X = p-ClC6H4SO2-Lys] (II). II in vitro inhibited human purulent sputum elastase and α-chymotrypsin with IC50 of 2.9 × 10⁻⁹ and 4.9 × 10⁻⁶ M and 1690 times selectivity for the elastase.
 IT 138006-70-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)

Habe

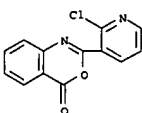
L4 ANSWER 52 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 76903-55-4P 139355-81-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 76903-55-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(6-chloro-pyridinyl)- (9CI) (CA INDEX NAME)



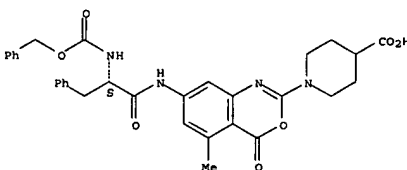
RN 139355-81-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)



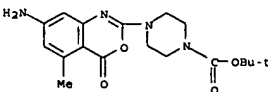
L4 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

(prepn. of, as elastase inhibitor)
 RN 138006-70-9 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[5-methyl-4-oxo-7-[[1-oxo-3-phenyl-2-[[[(phenylmethoxy)carbonyl]amino]propyl]amino]-4H-3,1-benzoxazin-2-yl]]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 138006-93-6P 138006-94-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for benzoxazinone derivative elastase inhibitor)
 RN 138006-93-6 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-(7-amino-5-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

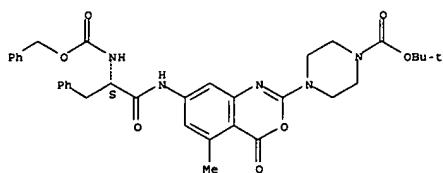


RN 138006-94-7 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-(5-methyl-4-oxo-7-[[1-oxo-3-phenyl-2-[[[(phenylmethoxy)carbonyl]amino]propyl]amino]-4H-3,1-benzoxazin-2-yl]]-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

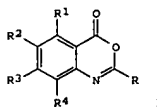
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L4 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:55743 CAPLUS
 DOCUMENT NUMBER: 112:55743
 TITLE: Design and synthesis of 4H-3,1-benzoxazin-4-ones as potent alternate substrate inhibitors of human leukocyte elastase
 AUTHOR(S): Krantz, Allen; Spencer, Robin W.; Tam, Tim F.; Liak, Teng Jiam; Copp, Leslie J.; Thomas, Everton M.; Rafferty, Steven P.
 CORPORATE SOURCE: Syntex Res., Mississauga, ON, L5N 3X4, Can.
 SOURCE: Journal of Medicinal Chemistry (1990), 33(2), 464-79
 CODEN: JMCHAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 112:55743
 GI



AB 4H-3,1-Benzoxazin-4-ones are alternate substrate inhibitors of the serine proteinase human leukocyte elastase (HL elastase), and form acyl enzyme intermediates during enzyme catalysis. A large variety of benzoxazinones have been synthesized using specific methods that have been adapted to achieve the pattern of ring substitution dictated by their considerations. The results of the inhibition of HL elastase by 175 benzoxazinones are reported herein with reference to hydrophobicity constants, D, alkaline hydrolysis rates k_{OH^-} , inhibition constants, K_i , and their component acylation and deacylation rate constants, k_{on} and k_{off} , resp. The ranges for the compds. are considerable; alkaline hydrolysis rates and k_{on} span 6, k_{off} covers 5, and K_i spans 8 orders of magnitude. Multiple regression on this large data set has been used to isolate the contributions of electronic and steric effects, as well as other factors specific to compound stability and elastase inhibition. Essentially, a simple electronic parameter is sufficient to account for almost all the variance in the alkaline hydrolysis data indicating that electronic factors are the major determinants of this type of benzoxazinone reactivity. Factors that significantly enhance the potency of benzoxazinones I, are R1 alkyl groups, and electron withdrawal by R2. Bulk in R3 and R4 and compound hydrophobicity are not significant, but substitution in R2 is highly unfavorable as are substituents linked via C to C2. The physicochem.

L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

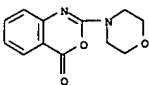
factors that underlie these trends in K_i are further analyzed in terms of equations that describe k_{on} and k_{off} . A conclusion that emerges is that chem. stable, potent benzoxazinone inhibitors of HL elastase with inhibition constants in the nanomolar range can be designed with (1) R1 alkyl groups to inhibit enzyme-catalyzed deacylation, (2) small alkyl substituents linked via heteroatoms to C2 to enhance acylation and limit deacylation rates, and (3) strongly electron-donating groups at C7 to stabilize the oxazinone ring to nucleophilic attack. Thus, 2-(isopropylamino-5-n-propyl-7-(dimethylamino)benzoxazinone 1 (R = NHCHMe2, R1 = Pr, R3 = NMe2, R4 = R4 = H) has k_{OH^-} = 0.01 M⁻¹s⁻¹, which extrapolates to a half-life at pH 7.4 of over 8.5 yr, and 2-ethoxy-5-ethyl-benzoxazinone 1 (R = OEt, R1 Et, R2 = R3 = R4 = H) has

K_i = 42 picomolar.

IT 23494-28-2P 100075-85-2P 100075-86-3P
 100075-87-4P 100075-88-5P 100163-85-7P
 123102-14-7P 123102-15-8P 123102-24-9P
 123102-25-0P 123102-26-1P

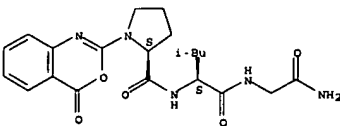
RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and human proteinase leukocyte elastase inhibiting activity of)

RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 100075-85-2 CAPLUS
 CN Glycinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl-L-leucyl- (9CI) (CA INDEX NAME)

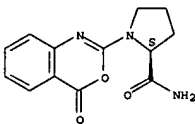
Absolute stereochemistry.



RN 100075-86-3 CAPLUS
 CN 2-Pyrrolidinedicarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-, (S)- (9CI) (CA INDEX NAME)

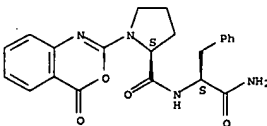
Absolute stereochemistry.

L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



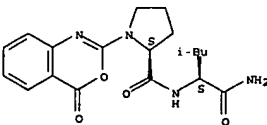
RN 100075-87-4 CAPLUS
 CN L-Phenylalaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



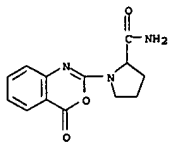
RN 100075-88-5 CAPLUS
 CN L-Leucinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

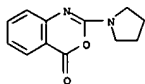


RN 100163-85-7 CAPLUS
 CN 2-Pyrrolidinedicarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

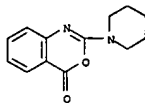
L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 123102-14-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

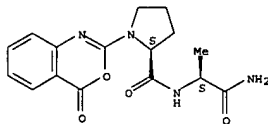


RN 123102-15-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(1-piperidinyl)- (9CI) (CA INDEX NAME)



RN 123102-24-9 CAPLUS
CN L-Alaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

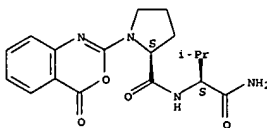


L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

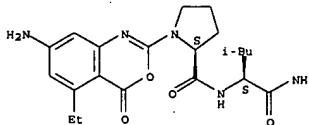
RN 123102-25-0 CAPLUS
CN L-Valinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123102-26-1 CAPLUS
CN L-Leucinamide, 1-(7-amino-5-ethyl-4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

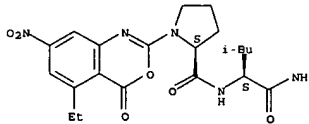
Absolute stereochemistry.



IT 123102-49-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

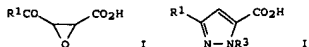
RN 123102-49-8 CAPLUS
CN L-Leucinamide, 1-(5-ethyl-7-nitro-4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 55 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

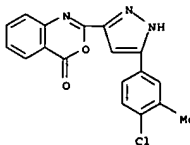
ACCESSION NUMBER: 1988:131443 CAPLUS
DOCUMENT NUMBER: 108:131443
TITLE: Action of nitrogen nucleophiles on oxiranes of β -aroylacrylic acids
AUTHOR(S): Omran, S. A.; Salem, M. A. I.; Harb, N. S.; Marzouk, M. I.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Egyptian Journal of Chemistry (1986), Volume Date 1985, 28(5), 399-410
CODEN: EGJCA3; ISSN: 0367-0422
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:131443
GI



AB Epoxides I ($R_1 = \text{ClMeC}_6\text{H}_3$, $\text{Me}_2\text{C}_6\text{H}_3$) were treated with anilines to give $\text{R}_1\text{COCH}(\text{OH})\text{CH}(\text{NHR}_2)\text{CO}_2\text{H}$ ($R_2 = \text{methylchlorophenyl}$, tolyl). The reaction of I with R_3NHNH_2 ($R_3 = \text{H}$, Ph) gave pyrazoles II. I were heated with NaOH to give R_1COCOMe and $\text{R}_1\text{C}(\text{OH})\text{MeCO}_2\text{H}$.

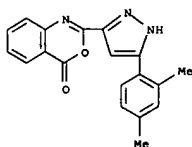
IT 113362-04-2P 113362-05-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and condensation reactions of, with hydrazine and aniline)

RN 113362-04-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[5-(4-chloro-3-methylphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



RN 113362-05-3 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[5-(2,4-dimethylphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 55 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



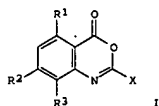
L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:94573 CAPLUS
 DOCUMENT NUMBER: 108:94573
 TITLE: Preparation of 4H-3,1-benzoxazin-4-ones as inhibitors of serine proteases
 INVENTOR(S): Krantz, Alexander; Spencer, Robin; Tam, Tim
 PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA
 SOURCE: U.S., 39 pp. Cont.-in-part of U.S. Ser. No. 608,609, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4657893	A	19870414	US 1984-673996	19841126
DK 8406251	A	19850628	DK 1984-6251	19841221
NO 8405176	A	19850628	NO 1984-5176	19841221
NO 163184	C	19900418		
EP 147211	A2	19850703	EP 1984-309013	19841221
EP 147211	A3	19850814		
EP 147211	B1	19900912		
CA 1269800	A1	19900529	CA 1984-470962	19841221
AT 56444	T	19900915	AT 1984-309013	19841221
AU 8437169	A	19850704	AU 1984-37169	19841224
AU 586616	B2	19890720		
JP 60169469	A	19850902	JP 1984-281900	19841226
ES 539038	A1	19860601	ES 1984-539038	19841226
IL 73943	A	19890131	IL 1984-73943	19841226
FI 8405116	A	19850628	FI 1984-5116	19841227
FI 79842	B	19891130		
FI 79842	C	19900312		
HU 36808	A2	19851028	HU 1984-4839	19841227
HU 195648	B	19880628		
ZA 8410089	A	19860827	ZA 1984-10089	19841227
ES 550879	A1	19870301	ES 1986-550879	19860114
PRIORITY APPLN. INFO.:				US 1983-566129 A2 19831227
				US 1984-608609 A2 19840509
				US 1984-673996 A 19841126
				EP 1984-309013 A 19841221

OTHER SOURCE(S): CASREACT 108:94573
 G1

L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. [I; R1 = H, alkyl; R2, R3 = H, alkyl, OH, alkoxy, alkylthio, NO2, R2N, RCONR, R2NCONH, RO2CNH; X = R4NH, R5CONR, R2NZ, ROZ; R = H, alkyl, alkenyl, alkynyl; R4 = alkyl, alkenyl, alkynyl, (un)substituted C3-6 cycloalkyl, phenylalkyl; R5 = RNH, ROZ, R4; Z = amino acid or di- or tripeptide residue] and their pharmaceutically acceptable esters or salts were prepared as inhibitors of serine proteases (no data).

useful in treating inflammation and diseases involving protein degradation
 2-OCNC6H4CO2Me and EtCHMeNH2 were stirred at room temperature to give 2-EtCHMeNHCONHC6H4CO2Me. The latter was dissolved in concentrated H2SO4

and stirred 2.5 h to give I (R1-R3 = H, X = EtCHMeNH).

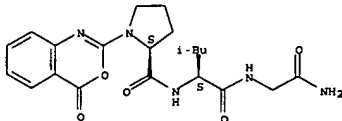
IT 100075-85-2P 100075-86-3P 100075-87-4P

100075-88-5P 100163-85-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as antiinflammatory and antiarthritic)

RN 100075-85-2 CAPLUS
 CN Glycinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl-L-leucyl- (9CI)
 (CA INDEX NAME)

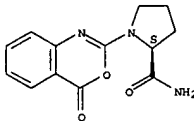
Absolute stereochemistry.



RN 100075-86-3 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-, (S)- (9CI)
 (CA INDEX NAME)

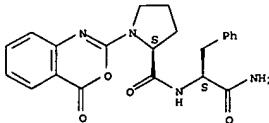
Absolute stereochemistry.

L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



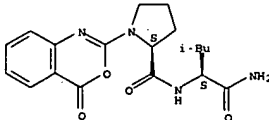
RN 100075-87-4 CAPLUS
 CN L-Phenylalaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



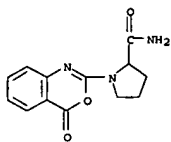
RN 100075-88-5 CAPLUS
 CN L-Leucinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 100163-85-7 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

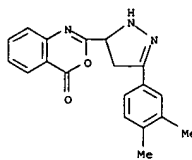


L4 ANSWER 57 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:56047 CAPLUS
 DOCUMENT NUMBER: 108:56047
 TITLE: Some reactions of N-[(3,4-dimethylbenzoyl)acryloyl]anthranilic acid and its derivatives
 AUTHOR(S): Soliman, E. A.; Hataba, A. M.; Attia, I. A.; El-Shahed, F. A.; Mousa, H. A.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Journal of the Chemical Society of Pakistan (1987), 9(1), 19-34
 CODEN: JCSPDF; ISSN: 0253-5106
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:56047
 GI

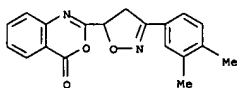
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Cyclization of anthranilic acid derivative I with RNHC(=O)NH₂ (R = H, Z = O, S; R = PhCH₂, Z = S) and with Ac₂O gave pyrimidines II (R = H, PhCH₂, Z = O, S) and benzoxazinone III, resp. Cyclocondensation of III with N₂H₄ gave aminoquinazolinone IV (R₁ = H). Condensation of III with N₂H₄ in the presence of R₂CO₂H (R₂ = H, Me, Et, Pr) gave IV (R₁ = COR₂). Some reactions of IV (R₁ = H) were also investigated.
 IT 112371-53-6P 112371-70-7P 112371-71-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 112371-53-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dimethylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

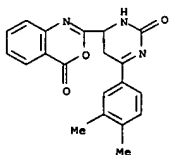


RN 112371-70-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dimethylphenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 57 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 112371-71-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-(3,4-dimethylphenyl)-2,3,4,5-tetrahydro-2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

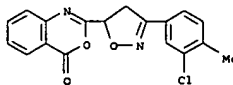


L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

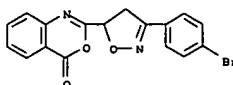
ACCESSION NUMBER: 1987:407144 CAPLUS
 DOCUMENT NUMBER: 107:7144
 TITLE: Synthesis of some new benzoxazinone and quinazolinone derivatives
 AUTHOR(S): Soliman, E. A.; Haseen, M. A.; Salem, M. A. I.; Sherif, I. S.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Egyptian Journal of Chemistry (1985), Volume Date 1984, 27(6), 789-802
 CODEN: EGJCA3; ISSN: 0367-0422
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 107:7144
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Aroylvinylbenzoxazinones I (R = H, U; R₁ = Br, Me; X = O) were prepared from anthranilic acid and β-arylacryloyl chlorides with following cyclization using Ac₂O. The reactions of I (X = O) with amines, hydrazines, hydroxylamine, and (thio)urea yielded benzoxazinones II (X = O; Y = e. g. NH, NPh, NAc, O) and III (X = O, S) and quinazolones I (X = NCSHMe-4, NCSHMe-4) and II (X = NH₂; Y = NH).
 IT 97272-12-3P 97272-13-4P 97272-14-5P
 97272-15-6P 97272-16-7P 97272-17-8P
 97272-53-2P 97272-55-4P 97272-57-6P
 97272-58-7P 97272-59-8P 97272-61-2P
 97272-62-3P 107833-56-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 97272-12-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-4-methylphenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)

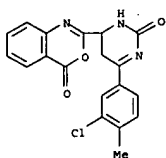


RN 97272-13-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)

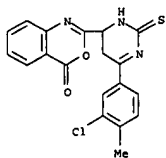


L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 97272-14-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

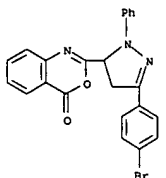


RN 97272-15-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

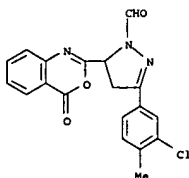


RN 97272-16-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-oxo-4-
 pyrimidinyl]- (9CI) (CA INDEX NAME)

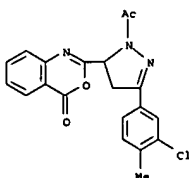
L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-57-6 CAPLUS
 CN 1H-Pyrazole-1-carboxaldehyde,
 3-[3-chloro-4-methylphenyl]-4,5-dihydro-5-(4-
 oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

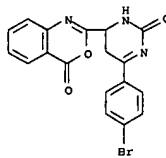


RN 97272-58-7 CAPLUS
 CN 1H-Pyrazole,
 1-acetyl-3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-
 3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

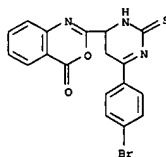


Habte

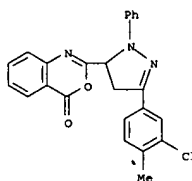
L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-17-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-thioxo-
 4-pyrimidinyl]- (9CI) (CA INDEX NAME)



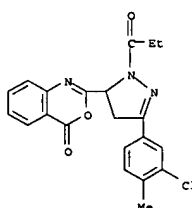
RN 97272-53-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-1-
 phenyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



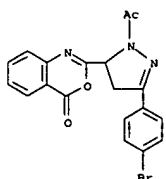
RN 97272-55-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-1-phenyl-1H-
 pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 97272-59-8 CAPLUS
 CN 1H-Pyrazole, 3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-
 benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



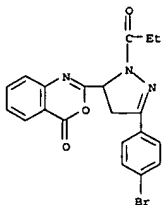
RN 97272-61-2 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-
 benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



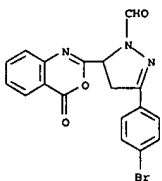
RN 97272-62-3 CAPLUS
 CN 1H-Pyrazole, 3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-
 yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)

03/06/2007

L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

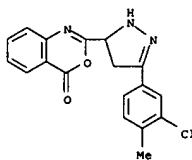


RN 107833-56-7 CAPLUS
CN 1H-Pyrazole-1-carboxaldehyde, 3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

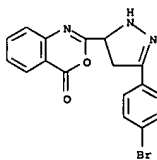


IT 97272-52-1P 97272-54-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, acetylation and hydrazinolysis of)
RN 97272-52-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

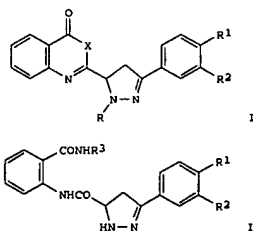


RN 97272-54-3 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:119830 CAPLUS
DOCUMENT NUMBER: 106:119830
TITLE: Some reactions of pyrazolylbenzoxazones and -quinazolones
AUTHOR(S): Soliman, E. A.; Haussen, M. A.; Salem, M. A. I.; Sherif, I. S.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Journal of the Chemical Society of Pakistan (1986), 8(2), 97-106
CODEN: JCSPDP; ISSN: 0253-5106
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:119830
GI

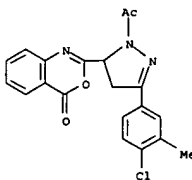


AB Arylpyrazolylbenzoxazinones I (X = O; R = H; R1 = H, Cl; R2 = Me, Br) react easily with amines R3NH2(R3 = e.g. Me, Bu, 4-MeOC6H4, PhCH2) in

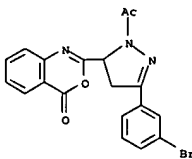
EtOH or AcOH to furnish the corresponding anilides II or quinazolones I (R = Ac; X = NR3). Acetylation, benzoylation and nitrosation of I led to the formation of I (R = Ac, Bz, NO; X = O). Other transformations of I were also investigated.

IT 107263-61-6P 107263-62-7P 107263-63-8P
107263-64-9P 107263-65-0P 107263-66-1P
107263-67-2P 107263-68-3P 107263-69-4P
107268-13-1P 107288-14-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 107263-61-6 CAPLUS
CN 1H-Pyrazole, 1-acetyl-3-(4-chloro-3-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

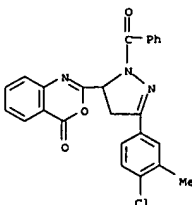
L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 107263-62-7 CAPLUS
CN 1H-Pyrazole, 1-acetyl-3-(3-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

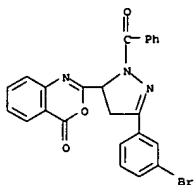


RN 107263-63-8 CAPLUS
CN 1H-Pyrazole, 1-benzoyl-3-(4-chloro-3-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

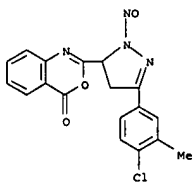


RN 107263-64-9 CAPLUS
CN 1H-Pyrazole, 1-benzoyl-3-(3-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

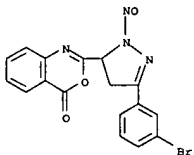
L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
benzoxazin-2-yl]- (9CI) (CA INDEX NAME)



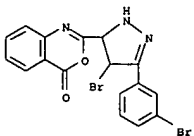
RN 107263-65-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



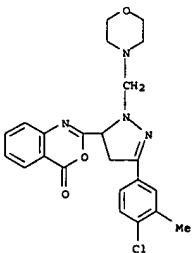
RN 107263-66-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-bromophenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



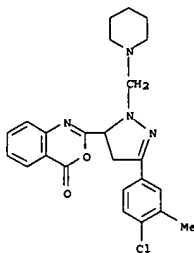
RN 107288-13-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1-(4-morpholinylmethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



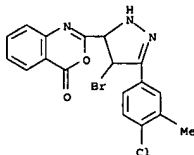
RN 107288-14-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-bromophenyl)-4,5-dihydro-1-(4-morpholinylmethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 107263-67-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1-(1-piperidinylmethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

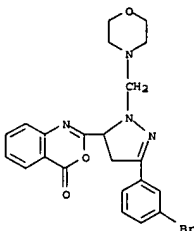


RN 107263-68-3 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[4-bromo-3-(4-chloro-3-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



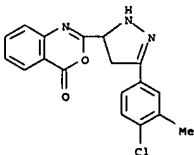
RN 107263-69-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[4-bromo-3-(3-bromophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

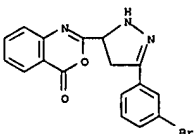


IT 107263-38-7 107263-39-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of)

RN 107263-38-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



RN 107263-39-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-bromophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

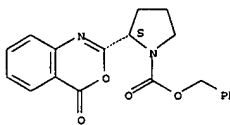
L4 ANSWER 60 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:46298 CAPLUS
 DOCUMENT NUMBER: 106:46298
 TITLE: Inhibition of serine proteases by benzoxazinones: effects of electron withdrawal and 5-substitution
 AUTHOR(S): Spencer, Robin W.; Copp, Leslie J.; Bonaventura, Bonnie; Tam, Tim F.; Liak, T. J.; Billedeau, Roland J.; Krantz, Allen
 CORPORATE SOURCE: Syntex Res., Mississauga, ON, L5N 3X4, Can.
 SOURCE: Biochemical and Biophysical Research Communications (1986), 140(3), 928-33
 CODEN: BBRC9; ISSN: 0006-291X
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB A series of substituted 4H-3,1-benzoxazin-4-ones were assayed as inhibitors of human leukocyte elastase (HLE) and other serine proteases. The benzoxazinones were kinetically competitive, alternate substrate inhibitors that inhibited by acylation and slow deacylation. Two structure-activity relations were found which were consistent with this mechanism. First, electron withdrawal at position 2 gave better inhibition (lower K_i values) because acylation rates were increased while deacylation was relatively unaffected. Second, benzoxazinones with Me or Et substitution at position 5 were better inhibitors of HLE because the acyl-enzymes formed from these compds. were 2,6-disubstituted benzoic acid esters and their deacylation was sterically hindered.

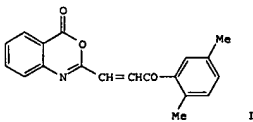
IT 106324-50-9
 RL: BIOL (Biological study)
 (elastase of human leukocytes and other serine proteinases inhibition by, kinetics of, structure in relation to)
 RN 106324-50-9 CAPLUS
 CN 1-Pyrrolidinecarboxylic acid, 2-(4-oxo-4H-3,1-benzoxazin-2-yl)-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

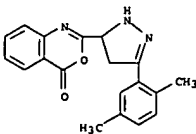


L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:626465 CAPLUS
 DOCUMENT NUMBER: 105:226465
 TITLE: Synthesis and some reactions of new 3,1-benzoxazin-4-one derivatives
 AUTHOR(S): Soliman, E. A.; Attia, I. A.; Guber, A. M.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Egyptian Journal of Chemistry (1985), 27(3), 297-308
 CODEN: EGJCA3; ISSN: 0367-0422
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 105:226465
 GI



AB Benzoxazinone I was prepared by treating 2-HO₂CC₆H₄NH₂ with 2,5-Me₂CC₆H₃COCH:CHCOCl and cyclization of 2-HO₂CC₆H₄NHCOCH:CHCO₂CHMe₂-2,5 with Ac₂O. I reacted with amines, hydrazines, NH₂OH, ureas, and thioureas to form various heterocyclic derivs.
 IT 105493-13-8P 105493-14-9P 105493-15-0P
 105493-16-1P 105493-17-2P 105493-18-3P
 105493-19-4P 105493-20-7P 105493-21-8P
 105493-22-9P 105493-23-0P 105507-04-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and acylation of)
 RN 105493-13-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-(3-(2,5-dimethylphenyl)-4,5-dihydro-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)

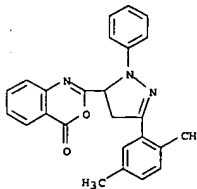


RN 105493-14-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

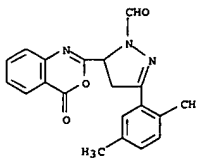
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L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

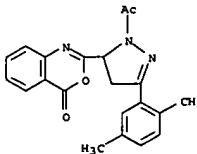
pyrazol-5-yl)- (9CI) (CA INDEX NAME)



RN 105493-15-0 CAPLUS
 CN 1H-Pyrazole-1-carboxaldehyde,
 3-(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



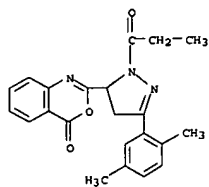
RN 105493-16-1 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



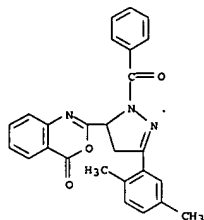
RN 105493-17-2 CAPLUS
 CN 1H-Pyrazole,
 3-(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

03/06/2007

L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)

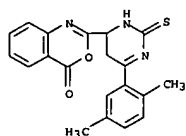


RN 105493-18-3 CAPLUS
CN 1H-Pyrazole,
1-benzoyl-3-[(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)]- (9CI) (CA INDEX NAME)

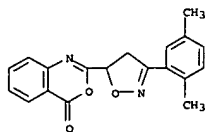


RN 105493-19-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-[(2,5-dimethylphenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]]- (9CI) (CA INDEX NAME)

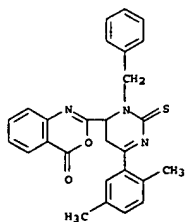
L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 105493-23-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-[(2,5-dimethylphenyl)-4,5-dihydro-5-iaoxazolyl]]- (9CI) (CA INDEX NAME)

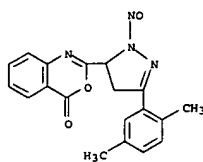


RN 105507-04-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[6-[(2,5-dimethylphenyl)-2,3,4,5-tetrahydro-3-phenylmethyl]-2-thioxo-4-pyrimidinyl]]- (9CI) (CA INDEX NAME)

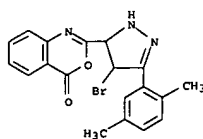


Habte

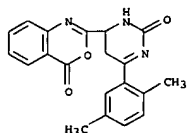
L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 105493-20-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[4-bromo-3-[(2,5-dimethylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]]- (9CI) (CA INDEX NAME)



RN 105493-21-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[6-[(2,5-dimethylphenyl)-2,3,4,5-tetrahydro-2-oxo-4-pyrimidinyl]]- (9CI) (CA INDEX NAME)



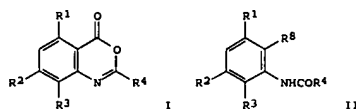
RN 105493-22-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[6-[(2,5-dimethylphenyl)-2,3,4,5-tetrahydro-2-thioxo-4-pyrimidinyl]]- (9CI) (CA INDEX NAME)

L4 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:88568 CAPLUS
DOCUMENT NUMBER: 104:88568
TITLE: 4H-3,1-Benzoxazin-4-ones and related compounds and pharmaceutical compositions containing them
INVENTOR(S): Krantz, Alexander; Tam, Tim F.; Spencer, Robin W.
PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA
SOURCE: Eur. Pat. Appl., 138 pp.
CODEN: EPXXDM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 147211	A2	19850703	EP 1984-309013	19841221
EP 147211	A3	19850814		
EP 147211	B1	19900912		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4657893	A	19870414	US 1984-673996	19841126
AT 56444	T	19900915	AT 1984-309013	19841221
ZA 8410089	A	19860827	ZA 1984-10089	19841227
PRIORITY APPLN. INFO.:			US 1983-566129	A 19831227
			US 1984-608609	A 19840509
			US 1984-673996	A 19841126
			EP 1984-309013	A 19841221

GI

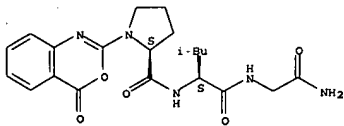


AB The title compds. [I; R1 = H, C1-8 alkyl; R2, R3 = H, halo, C1-8 alkyl, alkoxy, thioalkyl, NO2, N(R5)2, NR5COR5, NHCON(R5)2, NHCOR5; R4 = NHR6, NR5COR7, XN(R5)2, XOR5; R5 = H, C1-8 alkyl, alkenyl, alkynyl; R6 = C1-8 alkyl, alkenyl, alkynyl, (un)substituted cycloalkyl or Ph; R7 = as for R6,
alkoxy, NHR5, XOR5; X = amino acid, di- or tripeptide] are useful as serine protease inhibitors. I were prepared by several methods, e.g., by cyclization of II (R1 - R4 as above; R8 = CO2H, CO2Me, CO2Et, etc.), or by substitutions of I (R4 = 1-benzotriazolyl). Thus, a solution of Me2CHNH2 was added to 2-(1-benzotriazolyl)-5-ethyl-4H-3,1-benzoxazin-4-one in dry CH2Cl2 and the mixture stirred for 20 min. TLC showed that the reaction was completed, after which the CH2Cl2 was evaporated, the residue

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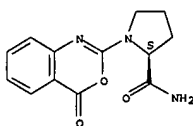
L4 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 over silica gel, the fractions combined and evapd., and the resulting
 solid recrystd. from pentane to give 40 g 5-ethyl-2-(isopropylamino)-4H-
 3,1-benzoxazin-4-one (I; R1 = Et, R2 = R3 = H, R4 = NHCHMe2). Inhibition
 kinetics of I in human leukocyte elastase and bovine trypsin assays are
 given. Pharmaceutical compns. contg. I are also presented.
 IT 100075-85-2P 100075-86-3P 100075-87-4P
 100075-88-5P 100163-85-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as serine protease inhibitor)
 RN 100075-85-2 CAPLUS
 CN Glycinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl-L-leucyl- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 100075-86-3 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-, (S)- (9CI)
 (CA INDEX NAME)

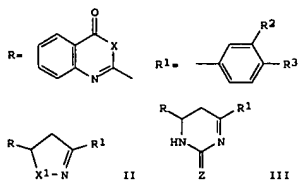
Absolute stereochemistry.



RN 100075-87-4 CAPLUS
 CN L-Phenylalaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI)
 (CA INDEX NAME)

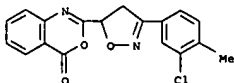
Absolute stereochemistry.

L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1985:454014 CAPLUS
 DOCUMENT NUMBER: 101:54014
 TITLE: Synthesis of some new benzoxazones and quinoxalones
 derivatives
 AUTHOR(S): Soliman, E. A.; Haesen, M. A.; Salem, M. A. I.;
 Sherif, I. S.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Journal of the Chemical Society of Pakistan (1984),
 6(3), 183-90
 CODEN: JCSPDF; ISSN: 0253-5106
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI:



AB RCH:CHCOR1 (I, X = O, R2 = H, Cl, R3 = Br, Me) were prepared by treating
 2-H2NC6H4CO2H with R1COCH:CHCOR1, followed by cyclization using Ac2O. I
 reacted with hydrazines to give pyrazoles II (X1 = NH, NPh) and with urea
 or thiourea to give pyrimidines III (Z = O, S). Aminolysis of I with
 R4NH2 (R4 = Me, Et, Bu, CH2Ph, 4-MeC6H4, 4-MeOC6H4) yielded
 2-R4NHCO6H4NHCOCH:CHCOR1. When the aminolysis was carried out in the
 presence of ZnCl2 I (X = NC6H4Me-4, NC6H4OMe-4) were formed.

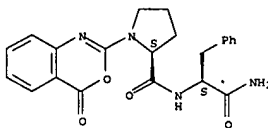
IT 97272-12-3P 97272-13-4P 97272-14-5P
 97272-15-6P 97272-16-7P 97272-17-8P
 97272-53-2P 97272-55-4P 97272-57-6P
 97272-58-7P 97272-59-8P 97272-60-1P
 97272-61-2P 97272-62-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 97272-12-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-
 isoxazolyl]- (9CI) (CA INDEX NAME)



RN 97272-13-4 CAPLUS

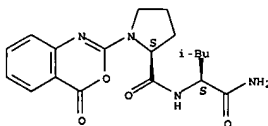
Habte

L4 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

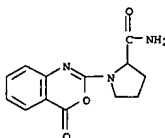


RN 100075-88-5 CAPLUS
 CN L-Leucinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA
 INDEX NAME)

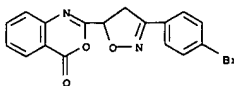
Absolute stereochemistry.



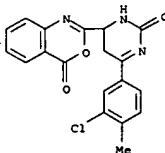
RN 100163-85-7 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA
 INDEX NAME)



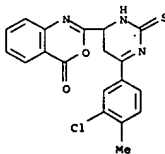
L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-5-isoxazolyl]-
 (9CI) (CA INDEX NAME)



RN 97272-14-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



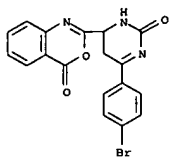
RN 97272-15-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



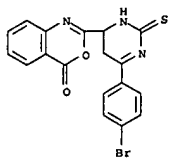
RN 97272-16-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-oxo-4-
 pyrimidinyl]- (9CI) (CA INDEX NAME)

03/06/2007

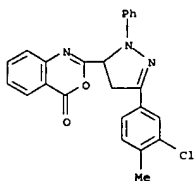
L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-17-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

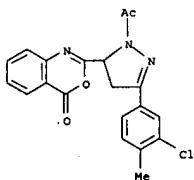


RN 97272-53-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-1-phenyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

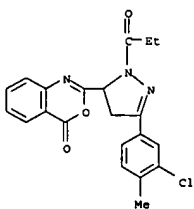


RN 97272-55-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-1-phenyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

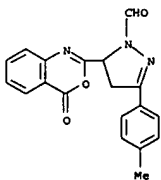
L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-59-8 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



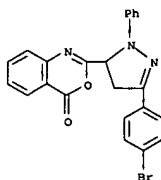
RN 97272-60-1 CAPLUS
 CN 1H-Pyrazole-1-carboxaldehyde, 4,5-dihydro-3-(4-methylphenyl)-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



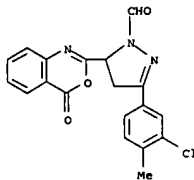
RN 97272-61-2 CAPLUS

Habte

L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

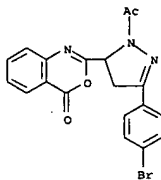


RN 97272-57-6 CAPLUS
 CN 1H-Pyrazole-1-carboxaldehyde, 3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)

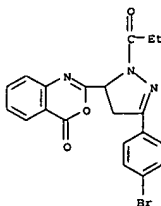


RN 97272-58-7 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 1H-Pyrazole, 1-acetyl-3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



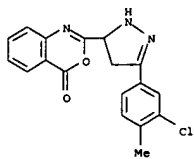
RN 97272-62-3 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



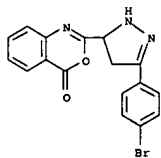
IT 97272-52-1P 97272-54-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation, aminolysis, or acetylation of)
 RN 97272-52-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

03/06/2007

L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

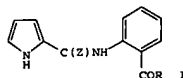


RN 97272-54-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[3-(4-bromophenyl)-4,5-dihydro-1H-pyrazol-5-yl]-
 (9CI) (CA INDEX NAME)



L4 ANSWER 64 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

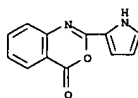
ACCESSION NUMBER: 1984:174580 CAPLUS
 DOCUMENT NUMBER: 100:174580
 TITLE: Synthesis of derivatives of pyrrole using methyl
 2-isothiocyanatobenzoate
 Looney-Dean, V.; Lindamood, B. S.; Papadopoulos, E.
 P.
 CORPORATE SOURCE: Dep. Chem., Univ. New Mexico, Albuquerque, NM, 87131,
 USA
 SOURCE: Synthesis (1984), (1), 68-71
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 100:174580
 GI



AB Pyrrolecarbanilides I (Z = S, O; R = OMe, OH, NH2, NHCH2Ph) were prepared
 Pyrrole was heated with 2-SCNCH4CO2Me to yield I (Z = S, R = OMe), which
 was converted to I (Z = O, R = OMe) and I (Z = S, R = OH) (II). II was
 cyclized to a benzoxazinone, and cleavage of the product with NH3 and
 PhCH2NH2 gave I (Z = O, R = NH2, NHCH2Ph).

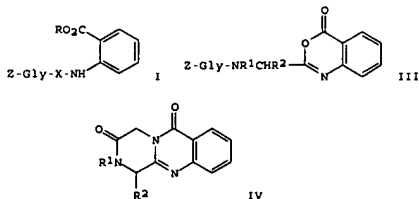
IT 89812-78-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and ring cleavage of, by ammonia and benzylamine)

RN 89812-78-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)



L4 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:616690 CAPLUS
 DOCUMENT NUMBER: 97:216690
 TITLE: Peptide derivatives of anthranilic acid. II.
 Intramolecular rearrangement products of
 dipeptidylanthranil
 Liberek, Bogdan; Zarebski, Jan
 Inst. Chem., Univ. Gdansk, Gdansk, PL-80-952, Pol.
 Pept., Proc. Eur. Pept. Symp., 16th (1981), Meeting
 Date 1980, 236-41. Editor(s): Brunfeldt, K.
 Scriptor: Copenhagen, Den.
 CODEN: 48NWA3
 CONFERENCE
 English
 DOCUMENT TYPE:
 LANGUAGE:
 GI



AB Anthranilic acid peptide I (Z = PhCH2O2C, X = MeGly, R = H) (II) was
 cyclized by DCC to give benzoxazinone III (R1 = Me, R2 = H), which was
 deblocked by hydrogenolysis and then cyclized to give azadehydrocyclo IV
 (R1 = Me, R2 = H). 2-Gly-MeGly-OH was coupled with anthranilic acid Me
 ester by DCC to give I (X = MeGly, R = Me), which was spond to give II.
 IV (R1R2 = (CH2)3; R1 = H, R2 = CH2Ph) were prepared similarly from I (X

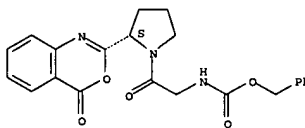
Pro, Phe; R = H) via the resp. III.

IT 83597-60-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and hydrogenolysis-cyclization of)

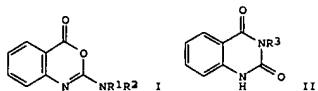
RN 83597-60-8 CAPLUS
 CN Carbamic acid, [2-oxo-2-[2-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-
 pyrrolidinylethyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

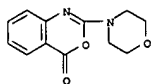
L4 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 66 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1982:6663 CAPLUS
 DOCUMENT NUMBER: 96:6663
 TITLE: Heterocyclization with iminium chlorides. II. Synthesis of 4H-[3,1]-benzoxazine-4-ones and quinoxalinones
 AUTHOR(S): Bitter, Istvan; Szocs, Laszlo; Toke, Laszlo
 CORPORATE SOURCE: Dep. Org. Chem. Technol., Tech. Univ., Budapest, Hung.
 SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1981), 107(1), 57-66
 CODEN: ACASA2; ISSN: 0001-5407
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 96:6663
 GI

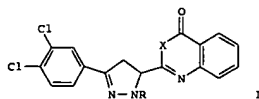


AB o-H2NC6H4CO2Me was treated with R1R2N+:CCl2.Cl- (R1 = Me, R2 = Ph; R1 = R2 = Me, R1R2N = morpholino) to give the benzoxazoles I. I were cleaved with R3NH2 (R3 = H, Bu, Ph, o-HO2CC6H4, 4-ClC6H4, etc.) to give o-(R3NHCO)C6H4NHCONR1R2, which were cyclized in boiling Ac2O or DMP to give the quinoxalinones II.
 IT 79860-06-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and ring cleavage of)
 RN 79860-06-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

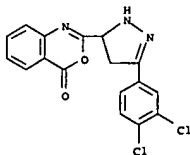


● HCl

L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1981:515462 CAPLUS
 DOCUMENT NUMBER: 95:115462
 TITLE: Some reactions of 2-[3-(3,4-dichlorophenyl)-2-pyrazoline-5-yl]-4H-benzoxazin-4-one
 AUTHOR(S): Soliman, E. A.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Revue Roumaine de Chimie (1981), 26(5), 699-703
 CODEN: RRCHAX; ISSN: 0035-3930
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 95:115462
 GI



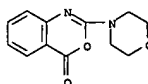
AB Treating the title compound (I, X = O, R = H) (II) with AcCl, BzCl, piperidine, and morpholine gave I (X = O; R = Ac, Bz, piperidino, morpholino) resp., whereas treating II with R1NH2 (R1 = Me, Bu, PhCH2, 4-MeOC6H4) gave I (X = NR1, R = H).
 IT 70012-29-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (acylation and aminolysis of)
 RN 70012-29-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



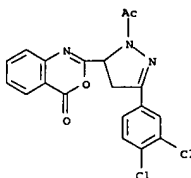
IT 78958-68-6P 78958-69-7P 78958-70-0P
 78958-71-1P 78958-76-6P 78958-77-7P
 78958-78-8P 78958-79-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 78958-68-6 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(3,4-dichlorophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-

Habte

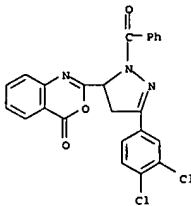
L4 ANSWER 66 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IT 23494-28-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



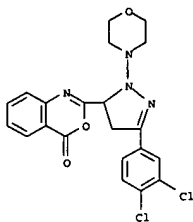
RN 78958-69-7 CAPLUS
 CN 1H-Pyrazole, 1-benzoyl-3-(3,4-dichlorophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



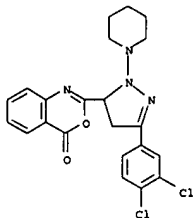
RN 78958-70-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1-(4-morpholinyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

03/06/2007

L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



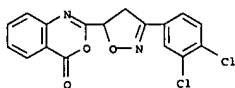
RN 78958-71-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-piperidinyl]-1H-pyrazol-5-yl- (9CI) (CA INDEX NAME)



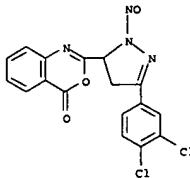
RN 78958-76-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

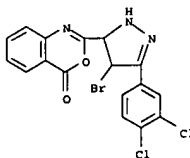
RN 78958-79-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)



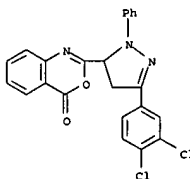
L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 78958-77-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[4-bromo-3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



RN 78958-78-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1-phenyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

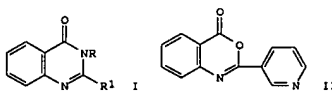


L4 ANSWER 68 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:121596 CAPLUS
 DOCUMENT NUMBER: 94:121596
 TITLE: 2,3-Dipyridylquinazolines
 PATENT ASSIGNEE(S): Hiasmitau Pharmaceutical Co., Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55147279	A	19801117	JP 1980-44865	19800404
PRIORITY APPLN. INFO.:			JP 1980-44865	A 19800404

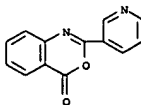
GI



AB Quinazolines I (R, R1 = pyridyl), useful as antidepressants (no data) and inflammation inhibitors, were prepared. Thus, treating 0.35 g II with 0.176 g 3-aminopyridine at 200° gave 0.3 g I (R = R1 = 3-pyridyl). The latter compound showed antiinflammatory activity approx. equal to that of phenylbutazone.

IT 53180-68-0
 RL: RCT (Reactant); RACT (Reactant or reagent) (aminolysis of)

RN 53180-68-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-pyridinyl]- (9CI) (CA INDEX NAME)

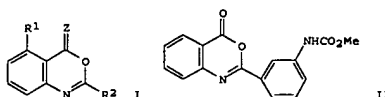


L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1981:121561 CAPLUS
 DOCUMENT NUMBER: 94:121561
 TITLE: 4H-3,1-Benzoxazine derivatives
 INVENTOR(S): Hamprecht, Gerhard; Wuerzler, Bruno
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 90 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

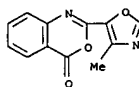
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2914915	A1	19801030	DE 1979-2914915	19790412
IL 59775	A	19840330	IL 1980-59775	19800404
BR 8002142	A	19801125	BR 1980-2142	19800408
US 4315766	A	19820216	US 1980-138414	19800408
CA 1145748	A1	19830503	CA 1980-349377	19800408
DD 149995	A5	19810812	DD 1980-220307	19800409
SU 980601	A3	19821207	SU 1980-2903456	19800409
CS 212229	B2	19820326	CS 1980-2490	19800410
HU 26093	A2	19830928	HU 1980-872	19800410
HU 185882	B	19850428		
PL 126871	B2	19830930	PL 1980-223370	19800410
AU 8057375	A	19801016	AU 1980-57375	19800411
AU 535463	B2	19840322		
EP 17931	A2	19801029	EP 1980-101957	19800411
EP 17931	A3	19810121		
EP 17931	B1	19840307		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
JP 55141476	A	19801105	JP 1980-47006	19800411
JP 02024825	B	19900530		
ZA 8002173	A	19810624	ZA 1980-2173	19800411
ES 490486	A1	19811101	ES 1980-490486	19800411
RO 81078	A1	19830201	RO 1980-100802	19800411
EP 84893	A2	19830803	EP 1983-100793	19800411
EP 84893	A3	19830824		
EP 84893	B1	19870114		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 6509	T	19840315	AT 1980-101957	19800411
AT 24901	T	19870115	AT 1983-100793	19800411
US 32087	E	19860225	US 1983-506316	19830621
PRIORITY APPLN. INFO.:			DE 1979-2914915	A 19790412
			US 1980-138414	A5 19800408
			EP 1980-101957	P 19800411
			EP 1983-100793	A 19800411

OTHER SOURCE(S): MARPAT 94:121561
 GI

L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

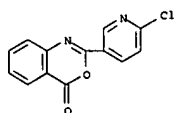


AB Benzoxazines I (R1 = H, halo, NO2, (halo)alkyl, haloalkoxy, -alkylthio, cyano, thiocyno, CO2R3 (R3 = alkyl, alkenyl), CONR4R5 (R4 = alkyl, R5 = H, alkyl), 21R4 (Z, Z1 = O, S), SO2R4, SO2OR4, SO2NR4R5, COR4; R2 = Me-substituted cyclo- or bicycloaliph., heterocyclyl optionally Me- or halo-substituted; R6-substituted aryl [R6 = R7Z2 (R7 = aliphatic; Z2 = O, S), SO, SO2, O2C, SCO, ONHCO, SNHCO, SNHCS, NHSO2, NR7SO2, NHCONH], halo-substituted C1-4 R7Z2, N(CF3)SCF3, NHCONHMe, NHCONMe2, NHCONMeOMe, HCONH, H, halo, cyano, thiocyno, NO2, haloalkyl, acyl, F, Cl, haloalkyl or haloalkoxy-substituted aralkyl], useful as selective herbicides (extensive data tabulated), were prepared. Thus, acylation by 3-O2NC6H4COCl of 2-H2NC6H4CO2H gave 2-(3-O2NC6H4CONH)C6H4CO2H, which was hydrogenated over Raney Ni to 2-(3-H2NC6H4CONH)C6H4CO2H. This was N-acylated with MeO2CCl and NEt3 in (ClCH2)2 to give 2-(3-MeO2CNHC6H4CONH)C6H4CO2H, which was cyclized in refluxing Ac2O to give 88% benzoxazine II.
 IT 76903-57-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and herbicidal activity of)
 RN 76903-57-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-methyl-5-oxazolyl)- (9CI) (CA INDEX NAME)

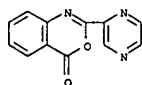


IT 76903-55-4P 76903-56-5P 76903-58-7P
 76903-60-1P 76903-62-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 76903-55-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(6-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

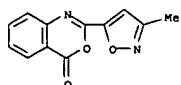
L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



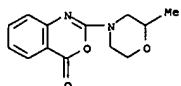
RN 76903-56-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-pyrazinyl- (9CI) (CA INDEX NAME)



RN 76903-58-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-methyl-5-isoxazolyl)- (9CI) (CA INDEX NAME)

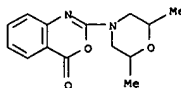


RN 76903-60-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-methyl-4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 76903-62-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2,6-dimethyl-4-morpholinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:198066 CAPLUS

DOCUMENT NUMBER: 92:198066

TITLE: Some reactions with β -(3,4-dichlorobenzoyl)-N-phenylacrylamide and β -(3,4-dichlorobenzoyl)acryloyl chloride

AUTHOR(S): Soliman, E. A.; Hossni, Galal

CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt

SOURCE: Pakistan Journal of Scientific and Industrial Research

(1979), 22(5), 228-35

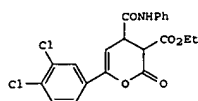
CODEN: PSIRAA; ISSN: 0030-9885

DOCUMENT TYPE: Journal

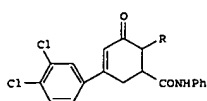
LANGUAGE: English

OTHER SOURCE(S): CASREACT 92:198066

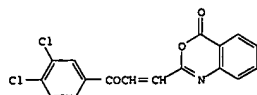
GI



II



III



VI

AB Reactions of 3,4-Cl₂C₆H₃COCH:CHCONHPh (I) with active methylene compds. Grignard reagents, hydrazines, acyl chlorides, amines and H₂NCSNH₂ were performed. Thus, Michael condensation of I with (EtO₂C)CH₂ gave II and of I with MeCOCH₂R (R = CO₂Et, Me, Ph) gave III. Grignard reaction of I gave 1,4-addition products, 3,4-Cl₂C₆H₃COCH₂CH(R)CONHPh (IV; R = Ph, Et, PhCH₂, 4-MeOC₆H₄). Acylation of I and reactions with hydrazines gave the expected products. Amination of I gave IV (R = morpholinyl, piperidinyl, PhCH₂NH).

Treatment of I with H₂NCSNH₂ did not give a thiazole but gave 3,4-Cl₂C₆H₃COCH:CHCONHCSNH₂. Reactions of 3,4-Cl₂C₆H₃COCH:CHCOCl (V) were

also studied. Friedel-Crafts reaction of V gave 3,4-Cl₂C₆H₃COCH₂CH(R)COR₂ (R₂ = Ph, 4-MeC₆H₄). Reaction of V with 2-H₂NC₆H₄CO₂H in Et₂O gave 3,4-Cl₂C₆H₃COCH:CHCONHC₆H₄CO₂H-2 but in pyridine the product was VI.

IT 70012-29-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with hydrazine and toluidine)

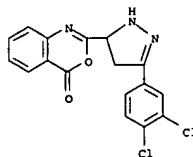
L4 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

RN 70012-29-2 CAPLUS

CN 4H-3,1-Benzoxazin-4-one,

2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 71 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:575295 CAPLUS

DOCUMENT NUMBER: 91:175295

TITLE: Reactions with the amides and chlorides of some β -aroylacrylic acids

AUTHOR(S): Sammour, A.; Afify, A. A.; Abdallah, M.; Soliman, E. A.

CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt

SOURCE: Egyptian Journal of Chemistry (1979), Volume Date 1976, 19(6), 1109-16

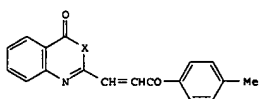
CODEN: EGJCA3; ISSN: 0367-0422

DOCUMENT TYPE: Journal

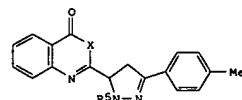
LANGUAGE: English

OTHER SOURCE(S): CASREACT 91:175295

GI



II



III

AB RCOCH:CHCONHCSNHR₁ (R = 4-MeC₆H₄, 2-naphthyl; R₁ = H, CH₂Ph) were prepared

by treating RCOCH:CHCONHC₆H₄R₂-4 (R₂ = H, Me, OMe) or 4-MeC₆H₄COCH:CHCOCl (I) with H₂NCSNHR₁. 4-MeC₆H₄COCH:CHCONHC₆H₄SO₂NHR₃-4 (R₃ = H, C(:NH)NH₂, 4-methyl-2-pyrimidinyl) were obtained from I and H₂NC₆H₄SO₂NHR₃-4. I reacted with 2-H₂NC₆H₄CO₂H to give 2-HO₂CC₆H₄NHCOCH:CHCO₂C₆H₄Me-4, which cyclized to the benzoxazinone II (X = O). Reaction of II (X = O) with amines R₄NH₂ in EtOH gave 2-R₄NHCO₂C₆H₄NHCOCH:CHCO₂C₆H₄Me-4 (R₄ = CH₂Ph, 4-MeC₆H₄), but reaction with 4-MeC₆H₄NH₂ at 170° gave II (X = NC₆H₄Me-4). Reaction of II (X = O) with N₂H₄ gave III (X = O, NNH₂, R₅ = H), whereas with PhNNH₂ only III (X = NNHPh, R₅ = Ph) was obtained.

IT 71703-82-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

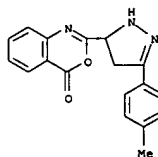
(preparation of)

RN 71703-82-7 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-[4,5-dihydro-3-(4-methylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 71 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



L4 ANSWER 72 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1979:203645 CAPLUS

DOCUMENT NUMBER:

90:203645

TITLE:

Some reactions of β -(3,4-dichlorobenzoyl)-N-phenylacrylamide and β -(3,4-dichlorobenzoyl)acrylyl chloride

AUTHOR(S):

Soliman, E. A.; Hoseni, Galal

CORPORATE SOURCE:

Fac. Sci., Ain Shams Univ., Cairo, Egypt

SOURCE:

Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1978), 16B(10), 884-8

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE:

Journal

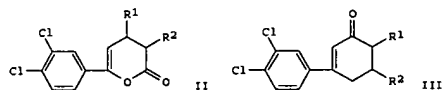
LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 90:203645

G1



AB The Michael condensation of RCOCH:CHCONHPh ($R = 3,4\text{-Cl}_2\text{C}_6\text{H}_3$; I) with $\text{CH}_2(\text{CO}_2\text{Et})_2$, $\text{MeCOCH}_2\text{CO}_2\text{Et}$, EtOMe , and MeCOCH_2Ph gave pyrones II ($R_1 = \text{PhNHCO}$, CO_2H ; $R_2 = \text{CO}_2\text{H}$, CO_2Et) and cyclohexenones III ($R_1 = \text{CO}_2\text{Et}$, Me , Ph ; $R_2 = \text{PhNHCO}$). The reactions of I with Grignard reagents and amines, thiourea, hydrazines and HONH_2 gave RR3 ($R_3 = \text{COCH}_2\text{CH}_2\text{CONHPh}$; $R_4 = \text{morpholino}$, piperidino , PhCH_2), $\text{ROCH:CHCONHC(S)NH}_2$, and $\text{RC(NR}_5\text{)CH:CHCONHPh}$; $R_5 = \text{NH}_2$, NHPh , OH). Friedel-Crafts alkylation of C_6H_6 and MePh with RCOCH:CHCOCl (IV) gave $\text{RCOCH}_2\text{CH}_2\text{COR}_7$ ($R_6 = R_7 = \text{Ph}$, $4\text{-MeC}_6\text{H}_4$). The reaction of IV and 2- $\text{H}_2\text{NC}_6\text{H}_4\text{CO}_2\text{H}$ gave $\text{R}_2\text{COCH:CHCONHC}_6\text{H}_4\text{CO}_2\text{H}$.

IT

70012-29-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

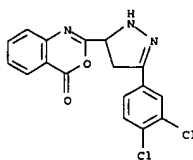
RN 70012-29-2 CAPLUS

CN

4H-3,1-Benzoxazin-4-one,
2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 72 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



L4 ANSWER 73 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1978:597453 CAPLUS

DOCUMENT NUMBER:

89:197453

TITLE:

Cyclization of arylcarboxamidouracils. Synthesis of a new 4H-3,1-benzoxazin-4-one. Use of mass

spectrometry

as a probe

AUTHOR(S):

Bernier, Jean Luc; Henichart, Jean Pierre

CORPORATE SOURCE:

Lab. Chim. Biol. Struct., Lille, Fr.

SOURCE:

Journal of Heterocyclic Chemistry (1978), 15(6), 997-1000

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE:

Journal

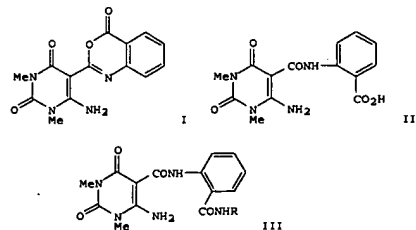
LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 89:197453

G1



AB Benzoxazinone I was obtained in 66% yield from uracil II by cyclization with Ac_2O . Amination of I by RNH_2 ($R = \text{Me}$, Ph) gave 73 and 80%, resp., of the ring opened products III.

IT

68210-98-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and amination of)

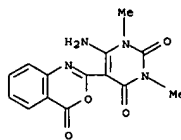
RN 68210-98-0 CAPLUS

CN

2,4-(1H,3H)-Pyrimidinedione, 6-amino-1,3-dimethyl-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 73 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



L4 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

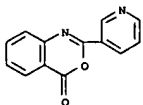
ACCESSION NUMBER: 1977:502374 CAPLUS
 DOCUMENT NUMBER: 87:102374
 TITLE: 3,4-Dihydroquinazoline derivatives
 INVENTOR(S): Doria, Gianfederico; Romeo, Ciriaco; Giraldi, Piericola; Lauria, Francesco; Corno, Maria Luisa; Sberze, Piero; Tibolla, Marcello
 PATENT ASSIGNEE(S): Erba, Carlo, S.p.A., Italy
 SOURCE: Ger. Offen., 44 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2654215	A1	19770616	DE 1976-2654215	19761130
US 4251531	A	19810217	US 1976-738221	19761102
IL 50849	A	19801130	IL 1976-50849	19761104
AU 7619472	A	19780518	AU 1976-19472	19761110
BE 848696	A1	19770316	BE 1976-172653	19761124
FI 7603391	A	19770606	FI 1976-3391	19761125
FI 64359	B	19830729		
FI 64359	C	19831110		
NL 7613450	A	19770607	NL 1976-13450	19761202
FR 2333511	A1	19770701	FR 1976-36343	19761202
FR 2333511	B1	19790302		
AT 7608943	A	19790715	AT 1976-8943	19761202
AT 355029	B	19800211		
DK 7605467	A	19770606	DK 1976-5467	19761203
DK 147855	B	19841224		
DK 147855	C	19850610		
SE 7613588	A	19770606	SE 1976-13588	19761203
NO 7604135	A	19770607	NO 1976-4135	19761203
NO 146095	B	19820419		
NO 146095	C	19820811		
CS 194786	B2	19791231	CS 1976-7886	19761203
CA 1084051	A1	19800819	CA 1976-267090	19761203
SU 786894	A3	19801207	SU 1976-2426155	19761203
HU 20142	A2	19810627	HU 1976-EA167	19761203
HU 177817	B	19811228		
CH 626073	A5	19811030	CH 1976-15272	19761203
JP 52071485	A	19770614	JP 1976-146444	19761206
JP 55043464	B	19801106		
AT 7902464	A	19791215	AT 1979-2464	19790403
AT 357544	B	19800710		
CH 626075	A5	19811030	CH 1980-8855	19801128
			IT 1975-29998	19751205
			AT 1976-8943	19761202
			CH 1976-15272	19761203

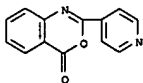
PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 87:102374
 GI

L4 ANSWER 75 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:17267 CAPLUS
 DOCUMENT NUMBER: 84:17267
 TITLE: Organothiur compounds. XII. Syntheses and pharmacological activities of 2-heterocyclic-substituted 4(3H)-quinazolinones
 AUTHOR(S): Hisano, Takuzo; Ichikawa, Masataka; Nakagawa, Akira; Teuji, Masayoshi
 CORPORATE SOURCE: Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, Japan
 SOURCE: Chemical & Pharmaceutical Bulletin (1975), 23(9), 1910-16
 CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 84:17267
 GI For diagram(s), see printed CA issue.
 AB Quinazolinones I (R = 3; 4-pyridyl, 2-thienyl, R1 = H, 2-Cl, 2-F, etc.) were prepared from isatoic anhydride and amines or acylation of O-HN6CH4CO2H followed by cyclization were evaluated for hypnotic activity. Some I showed a definite hypnotic effect in intraperitoneal doses above 100 mg/kg, whose structure-activity relationship demonstrated that R = 3-pyridyl and 4-pyridyl R1 = 2-F, 2-Cl are appropriate for the manifestation of hypnotic activity. A maximum hypnotic effect was observed in I (R = 2-pyridyl, R1 = O-F), the potency of which was equal to methaqualone in mice.
 IT 53180-68-OP 57696-11-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction with amines)
 RN 53180-68-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)

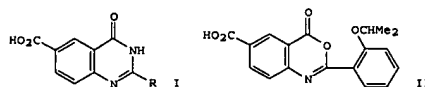


RN 57696-11-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-pyridinyl)- (9CI) (CA INDEX NAME)

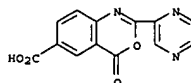


Habte

L4 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

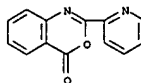


AB Antiallergic (no data) quinazolinones I (R = pentyl, 2-pyrazinyl, 4-ET0CH2CH2O6H4, 4-PC6H4, 3-ClC6H4, 3-MeOC6H4, 2-O2NC6H4, 2-R1OC6H4; R1 = Me2CH, Me, Et, allyl, Pr, Bu, Me2CHCH2, EtOCH2CH2, hexyl) and some ester and amide derivs. were prepared. Thus, 2,4-(MeO2C)2C6H3NH2 was treated with
 with 2-Me2CHOC6H4COCl, 2,4-(MeO2C)2C6H3NHOC6H4OCHMe2-2 hydrolyzed, the acid product cyclized with Ac2O, and the benzoxazine II treated with NH4OH to give I (R = 2-Me2CHOC6H4).
 IT 63746-31-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with ammonia, quinazolinone from)
 RN 63746-31-6 CAPLUS
 CN 4H-3,1-Benzoxazine-6-carboxylic acid, 4-oxo-2-pyrazinyl- (9CI) (CA INDEX NAME)



L4 ANSWER 76 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:551894 CAPLUS
 DOCUMENT NUMBER: 81:151894
 TITLE: 2-Hydroxyindoxyls. General and novel preparation, properties, and their role in the perphthalic acid oxidation of indoles
 AUTHOR(S): Braudeau, E.; David, S.; Fischer, J. C.
 CORPORATE SOURCE: Dep. Chim. Org., Univ. Paris-Sud, Orsay, Fr.
 SOURCE: Tetrahedron (1974), 30(11), 1445-55
 CODEN: TETTAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 OTHER SOURCE(S): CASREACT 81:151894
 GI For diagram(s), see printed CA issue.
 AB Oxidation of 2-isopropylindole with monoparphthalic acid gave the 2-OH compound I and the (isopropylindolyl)indoxyl II. Increased reaction time gave the benzoxazinone III. Other 2-substituted indoxyls reacted similarly. 2-Isobutylindoxyl, in addition to compds. corresponding to I and II, gave the bridged compound IV. The mechanism of the oxidns. is discussed.
 IT 53904-12-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53904-12-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



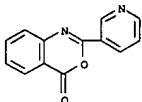
03/06/2007

L4 ANSWER 77 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1974:477955 CAPLUS
 DOCUMENT NUMBER: 81:77955
 TITLE: 2,3-Dipyrindylquinazoline derivatives
 INVENTOR(S): Noda, Kanji; Nakagawa, Akira; Yamazaki, Shunzo; Ide, Hiroyuki
 PATENT ASSIGNEE(S): Hisamitsu Pharmaceutical Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JQXXAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49031681	A	19740322	JP 1972-75246	19720727
JP 56010316	B	19810306		

PRIORITY APPLN. INFO.: JP 1972-75246 A 19720727

OTHER SOURCE(S): CASREACT 81:77955
 GI For diagram(s), see printed CA Issue.
 AB 2,3-Bis(pyrindyl)quinazolines (I, R₁R₂ = 2-, 3-, or 4-pyrindyl) with hypnotic, anesthetic, sedative, muscle relaxant, anticonvulsant, antiinflammatory, and analgesic properties were prep'd by reaction of N-pyrindylcarbonylanthranilic acids or their cyclized deriva. with pyridylamines, R₁NH₂. E.g., heating 0.35 g 2-(3-pyrindyl)-4H-3,1-benzoxazin-4-one and 0.176 g 3-aminopyridine 10 hr at 200° yielded 0.3 g 2-(3-pyrindyl)-3-(3-pyrindyl)-4(3H)-quinazolinone. 2-(3-Pyrindyl)-3-(2-pyrindyl)-, 2-(4-pyrindyl)-3-(2-pyrindyl)-, and 2-(2-pyrindyl)-3-(2-pyrindyl)-4(3H)-quinazolines were similarly prepared
 IT 53180-68-0
 RI: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with aminopyridines)
 RN 53180-68-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyrindinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 79 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1950:20113 CAPLUS
 DOCUMENT NUMBER: 44:20113
 ORIGINAL REFERENCE NO.: 44:4001a-1,4002a-c
 TITLE: The so-called acylanthranila (3,1,4H-benzoxaz-4-ones).
 AUTHOR(S): I. Preparation; reactions with water, ammonia, and aniline; structure
 Zentmyer, David T.; Wagner, E. C.
 CORPORATE SOURCE: Univ. of Pennsylvania, Philadelphia
 SOURCE: Journal of Organic Chemistry (1949), 14, 967-81
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 44:20113
 GI For diagram(s), see printed CA Issue.
 AB The structure of the heterocyclic ring in 3,1,4H-benzoxaz-4-ones, o-C₆H₄N:CR.O.CO (I), has not been decisively proved. An improved

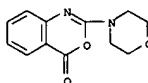
general procedure for the preparation of I is described and their behavior toward H₂O, NH₃, and PhNH₂ is studied. I are prepared by dehydration of the corresponding N-acylanthranilic acids which in turn are obtained according to the method of Steiger (C.A. 39, 288.6), except o-HCONHC₆H₄CO₂H (II). II, m. 167°, is obtained in 90% yield by refluxing 3 hrs. 68.5 g. o-H₂NC₆H₄CO₂H in 500 cc. C₆H₆ and 57 cc. 99% HCO₂H. The following o-H₂NC₆H₄CO₂H (III) are prepared: R = EtCO, 71.3% yield, m. 114-15°; PrCO, 32.6%, m. 118-18.5°; Me₂CHCH₂CO (IV), 33.5%, m. 115-16°; AmCO (V), 32.8%, m. 99-103°; Me(CH₂)₁₀CO (VI), 40.6%, m. 92°; Bz, 99.2%, m. 182-3°; o-MeC₆H₄CO, 31.6%, m. 193-4°; p-analog, 82.5%, m. 193-4°; o-ClC₆H₄CO, 59.6%, m. 186.5-7°; p-analog, 96.8%, m. 204-5°; o-O₂NC₆H₄CO, 57%, m. 234-5°; p-analog, 77.5%, m. 235.5°; 3,5-(O₂N)₂C₆H₃CO (VII), 54.7%, m. 208-9° (decomposition); nicotinyl, 71%, m. 263-4°. III are dehydrated by refluxing 0.05 mol. III with 0.4 mol. Ac₂O 1 hr. and then slowly distilling off 25 cc. at below 139°. The excess Ac₂O is distilled off in vacuo and I recrystd. from anhydrous AcOEt and C₆H₁₄. In this way the following I are prepared: R = Et (VIII), 74.7% yield, m. 85-6°; Pr (IX), 26.6%, m. 59-60°; Ph, 81%, m. 123-4°; o-MeC₆H₄, 74.6%, m. 115°; p-MeC₆H₄, 58.5%, m. 154.5°; o-ClC₆H₄, 91%, m. 139-40°; p-ClC₆H₄, 89.4%, m. 190°; o-O₂NC₆H₄, 94.6%, m. 195-5.5°; p-O₂NC₆H₄, 71.7%, m. 203°; 3-pyrindyl, 80.8%, m. 153°. I (R = H) (X) prepared from II and isolated from the reaction mixture by distillation, b.p. 3.122°, m. 43-4°. X is hydrolyzed by atmospheric moisture and deteriorates on standing in a stoppered bottle. An attempt to prepare X from II and 100% HCO₂H failed. When HCO₂H is added to II and Ac₂O, 3-(2-carboxyphenyl)-4-quinazolinone, m. 274.5-5°, is formed. I (R = Me), prepared in 66.7% yield, m. 80-1°, is purified by sublimation at 70-5°/0.03 mm. No I are obtained from IV-VII. IV and Ac₂O give some o-AcNH₂C₆H₄CO₂H, m. 181-2°, probably by transeacylation, followed by hydrolysis. V and Ac₂O give an unidentified compound, m. 144-4.5°. o-H₂NC₆H₄CO₂Me (XI) refluxed with Ac₂O gives the NAc analog (XII), m. 98-9°. XI or o-HCONHC₆H₄CO₂Me and Ac₂O at 200° give XII and the Ac₂N analog of XI, m. 66-7°. Passing NH₃ 1 hr. into 0.01 mol. X in the min. amount of absolute EtOH, cooled with ice, gives 33.1% o-HCONHC₆H₄CONH₂, m.

L4 ANSWER 78 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1969:470611 CAPLUS
 DOCUMENT NUMBER: 71:70611
 TITLE: 2-Amino-4H-3,1-benzoxazin-4-ones
 INVENTOR(S): Sayigh, Adnan A. R.; Ulrich, Henri
 PATENT ASSIGNEE(S): Upjohn Co.
 SOURCE: U.S., 4 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3450700	A	19690617	US 1966-603146	19661220

PRIORITY APPLN. INFO.: US 1966-603146 A 19661220

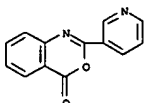
AB The subject compds. are prepared Thus, COCl₂ is passed into a refluxing mixture of 16.3 g. isatoic anhydride, 165 ml. PhCl, and 0.33 g. HCONMe₂ until a clear solution is obtained. After purging with N, the PhCl is distilled and the distillation continued in vacuo to yield 10.75 g. 2-isocyanatobenzoyl chloride (I) b.p. 100-10°, 30-3°. The following 2-isocyanatobenzoyl chlorides are similarly prepared (substituent given): 5-Cl, 6-MeO₂C, 4-Cl; 3-Br; 6-F; 3,5-Br₂; 3,5-Cl₂; 3,5-12; 6-Et; 6-Pr; 3-Me; and 6-F₃C. I (3.6 g.) is stirred into 2.9 g. Et₂NH in 20 ml. C₆H₆. The temperature at 70° is reduced to 25° and the solids removed. The filtrate is evaporated to dryness, the residue taken up in Et₂O, and the Et₂O removed in vacuo to yield 4.3 g. 2-(diethylamino)-4H-3,1-benzoxazin-4-one. The following 4H-3,1-benzoxazin-4-ones are similarly prepared 2-Bu₂N, 2-morpholino, 2-dihexylamino, 2-diethylamino-5-chloro.
 IT 23494-28-2P
 RI: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

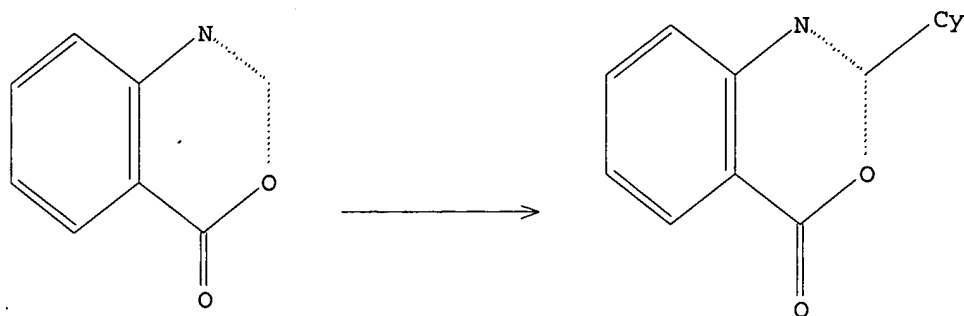


L4 ANSWER 79 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 119-22°; at 10-15°, 47.2% 4-quinazolinone, m. 216-17°, is formed. I (R = Et or Pr) and NH₃ give 52.2% 2-ethyl-, m. 233°, and 43.1% 2-propyl-4-quinazolinone, m. 200-1°, resp. By passing NH₃ into I in boiling EtOH the following o-RCONHC₆H₄CONH₂ (XIIa) are prep'd:

R = o-MeC₆H₄ (XIII), 24.4% yield, m. 217-18°; p-MeC₆H₄, 39.7%, m. 204-5°; o-ClC₆H₄ (XIV), 58.8%, m. 198-9°; p-ClC₆H₄, 44.8%, m. 200.5°; o-O₂NC₆H₄ (XV), 53%, m. 195°; p-O₂NC₆H₄, 61.5%, m. 235-6°; nicotinyl, 53.9%, m. 211°. Heating XIIa 0.5 hr. at 240-50° and recrystg. the product from AcOEt give the 2-substituted 4(3H)-quinazolones, o-C₆H₄N:CR.NH.CO, of which the following are prep'd: R = p-MeC₆H₄, 38.1% yield, m. 241-2°; p-ClC₆H₄, 67.4%, m. 306°; p-O₂NC₆H₄, 68.3%, m. 351-2°; 3-pyrindyl, 41.5%, m. 276°. Ring closure at 250° failed with XIII-XV. Heating 0.01 mol. I with 0.011 mol. PhNH₂ 3 hrs. on a steam bath and recrystn. of the product from AcOEt-C₆H₁₄ gives o-RCONHC₆H₄CONHPh (XVI), of which the following are prep'd: R = Et, 37.7% yield, m. 164°; Pr, 58.4%, m. 151-2°; Ph, 74.4%, m. 216-18°; o-MeC₆H₄, 39.9%, m. 194.5°; p-MeC₆H₄, 51.8%, m. 220-1°; o-ClC₆H₄, 55.4%, m. 214-15°; p-ClC₆H₄, 52.5%, m. 236-7°; o-O₂NC₆H₄, 39.9%, m. 197°; p-O₂NC₆H₄, 53.3%, m. 207-8°; nicotinyl, 61.8%, m. 248-9°. Heating XVI (R = alkyl) 0.5 hr. at 240-50° or 0.01 mol. XVI (R = aryl) with 3 mg. ZnCl₂ about 10 min. at 240-50° gives o-C₆H₄N:CR.NH.CO, of which the following are prep'd: R = Et (XVII), 43.8% yield, m. 125-5.5°; Pr (XVIII), 53.2%, m. 120-1°; Ph, 41.9%, m. 156-7°; o-MeC₆H₄, 36.1%, m. 179-80°; p-MeC₆H₄, 54.6%, m. 178°; p-ClC₆H₄, 39.8%, m. 177°; p-O₂NC₆H₄, 43.2%, m. 224-5°; 3-pyrindyl, 57.7%, m. 175-6.5°. VIII (0.01 mol.) and 0.011 mol. PhNH₂ heated 0.5 hr. at 150-60° give 67.8% XVII; IX and PhNH₂ give XVIII. When 4.95 g. II, 24.4 g. Ac₂O, and 0.49 g. NaOAc are refluxed, transeacylation takes place, giving 44.7% I (R = Me), m. 78-80°. The ultraviolet absorption spectrum of I (R = Me) is compared with that of o-AcNH₂C₆H₄CO₂H and isatoic anhydride in neutral and alk. dioxane, and the infrared absorption spectrum of I (R = Me) is given. The results seem to indicate that the so-called acylanthranila have the structure I.

IT 53180-68-0P, 4H-3,1-Benzoxazin-4-one, 2-(3-pyrindyl)-
 RI: PREP (Preparation)
 (preparation of)
 RN 53180-68-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyrindinyl)- (9CI) (CA INDEX NAME)





Cy—COOH

Structure attributes must be viewed using STN Express query preparation.

=> file casreact
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ENTRY	SESSION
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FULL ESTIMATED COST

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FILE CONTENT:1840 - 25 Feb 2007 VOL 146 ISS 9

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=> s ll

SAMPLE SEARCH INITIATED 08:47:57 FILE 'CASREACT'
SCREENING COMPLETE - 2 REACTIONS TO VERIFY FROM 2 DOCUMENTS

100.0% DONE 2 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 sss full

FULL SEARCH INITIATED 08:48:05 FILE 'CASREACT'

SCREENING COMPLETE - 111 REACTIONS TO VERIFY FROM

36 DOCUMENTS

100.0% DONE 111 VERIFIED 15 HIT RXNS

5 DOCS

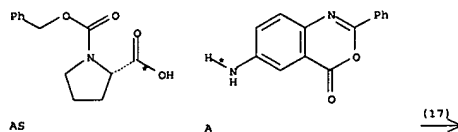
SEARCH TIME: 00.00.04

L3 5 SEA SSS FUL L1 (15 REACTIONS)

=> d fhit abs ibib tot

L3 ANSWER 1 OF 5 CASREACT COPYRIGHT 2007 ACS on STN

RX(17) OF 32 AS + A ==> AT



YIELD 62%

RX(17) RCT AS 1148-11-4

STAGE(1)

RGT G 538-75-0 DCC

SOL 75-09-2 CH₂Cl₂

CON 1 hour, 0 deg C

STAGE(2)

RCT A 60498-33-1

CON 1 - 3 day, room temperature

PRO AT 866005-83-6

AB A series of amino acid amides and peptide amides of 6-amino-2-phenyl-4H-3,1-benzoxazin-4-one were synthesized and tested in vitro for their inhibitory activity towards human leukocyte elastase (HLE). When compared

to their values without inhibitors, the residual enzymic activities decrease with time, indicating a time-dependent inhibition. The most potent inhibitions were obtained when Cbz-Arg-(Pmc) Cbz-Val-Phe, Cbz-Ala-Val or Cbz-Val-Ala are linked to the 6-amino group.

ACCESSION NUMBER:

143:347431 CASREACT

TITLE:

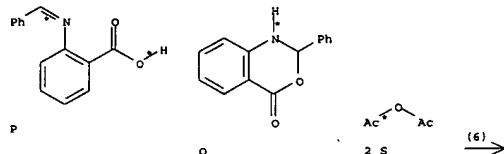
Synthesis and anti-elastase properties of 6-amino-2-phenyl-4H-3,1-benzoxazin-4-one aminoacyl

and

dipeptidyl derivatives

L3 ANSWER 2 OF 5 CASREACT COPYRIGHT 2007 ACS on STN

RX(6) OF 14 ...P + O + 2 S ==> 2 T



YIELD 73%

YIELD 73%

RX(6) RCT P 5766-76-7, O 198069-31-7, S 108-24-7

PRO T 325850-36-0

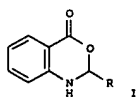
SOL 71-43-2 Benzene

CON SUBSTAGE(1) room temperature

SUBSTAGE(2) 10 hours, 50 - 60 deg C

GI

NTE chemoselective



AB Anthranilic acid imines underwent ring-chain tautomerism with benzoxazines

(I: R = Ph, 4-nitrophenyl, 2-hydroxyphenyl, trichloro-2-thienyl).

Acetylation of the tautomers by Ac₂O or by AcCl in the presence of pyridine occurred on the N atom of I; acetylation of an anthranilic acid imine by AcCl-Et₃N gave the mixed anhydride, which was hydrolyzed to

Habte

L3 ANSWER 1 OF 5 CASREACT COPYRIGHT 2007 ACS on STN (Continued)

AUTHOR(S):

Colson, Eric; Wallach, Jean; Hauteville, Marcelle

CORPORATE SOURCE:

Laboratoire de Biochimie Analytique et Synthèse

Bioorganique, Université Claude Bernard Lyon 1,

Villeurbanne cedex, 69 622, Fr.

Biochimie (2005), 87(2), 223-230

CODEN: BICMBE; ISSN: 0300-9084

Elsevier B.V.

Journal

English

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

REFERENCE COUNT:

THIS

31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

L3 ANSWER 2 OF 5 CASREACT COPYRIGHT 2007 ACS on STN (Continued)

Starting material. Both substituents in N-acetylated I were pseudoaxial.

ACCESSION NUMBER:

141:379876 CASREACT

TITLE:

Synthesis and acylation of anthranilic acid imines

AUTHOR(S):

Kon'kova, S. G.; Abovyan, G. M.; Khachatryan, A. Kh.;

Badasyan, A. E.; Konoyan, F. S.; Sargayan, M. S.

Inst. Org. Khim., NAN Arm., Yerevan, Armenia

CORPORATE SOURCE:

Hayastani Kimiakan Handes (2004), 57(1-2), 71-77

SOURCE:

CODEN: KZARF3; ISSN: 1561-4190

PUBLISHER:

Izdatel'stvo Gitut'yun NAN Respubliki Armenii

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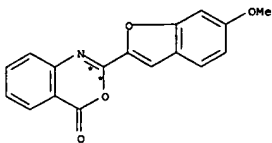
Journal

LANGUAGE:

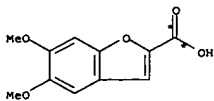
Russian

03/06/2007

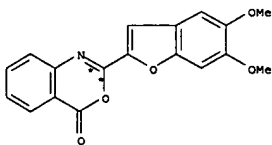
L3 ANSWER 3 OF 5 CASREACT COPYRIGHT 2007 ACS on STN

RX(15) OF 27 COMPOSED OF RX(3), RX(4)
RX(15) J + M ----> N

J



M

2
STEPS
→N
YIELD 39%

RX(3) RCT J 497106-60-2

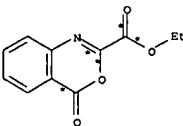
STAGE(1)
RGT K 1310-58-3 KOH
SOL 64-17-5 EtOH
CON 2 hours, refluxSTAGE(2)
RGT E 7647-01-0 HCl
SOL 7732-18-5 Water

PRO B 118-92-3

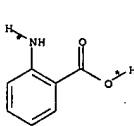
L3 ANSWER 4 OF 5 CASREACT COPYRIGHT 2007 ACS on STN

RX(21) OF 47 COMPOSED OF RX(1), RX(5)
RX(21) A + B + H ----> I

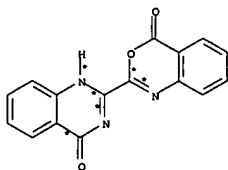
A



B



H

2
STEPS
→I
YIELD 65%RX(1) RCT A 75-12-7, B 31143-83-6
PRO C 29113-33-5RX(5) RCT H 118-92-3, C 29113-33-5
PRO I 153776-81-9

GI

L3 ANSWER 3 OF 5 CASREACT COPYRIGHT 2007 ACS on STN (Continued)
RX(4) RCT M 114842-08-9

STAGE(1)

RGT O 10026-13-8 PC15
SOL 71-43-2 Benzene
CON SUBSTAGE(1) 2 hours, reflux
SUBSTAGE(2) reflux -> 0 deg C

STAGE(2)

RGT B 118-92-3
RGT P 110-86-1 Pyridine
CON SUBSTAGE(1) 0 deg C
SUBSTAGE(2) 3 hours, room temperature

PRO N 497106-61-3

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Treatment of 5,6-dimethoxy-2-(methylphenylcarbamoyl)benzofuran-3-carboxylic acid (I) with PPA yielded the title compound (II). The analogous

2-[(5,6-dimethoxybenzofuran-2-carbonyl)methylamino]benzoic acid was resistant to cyclization, whereas 2-[(6-methoxybenzofuran-2-carbonyl)amino]benzoic acid (III) underwent cyclization to the corresponding 3,1-benzoxazin-4-one (IV).

ACCESSION NUMBER: 138:170093 CASREACT
TITLE: Synthesis of 2,3-dimethoxy-7-methyl-7,12-dihydro-6H-[1]benzofuro[2,3-c][1]benzazepine-6,12-dione
AUTHOR(S): Jackson, Yvette A.; Marriott, Karla-Sue C.
CORPORATE SOURCE: Department of Chemistry, University of the West Indies, Mona, Kingston, Jamaica
SOURCE: Molecules [online computer file] (2002), 7(3), 353-362

CODEN: MOLEPM; ISSN: 1420-3049

URL:

<http://www.mdpi.org/molecules/papers/70300353.pdf>PUBLISHER: Molecular Diversity Preservation International
JOURNAL: Journal; (online computer file)

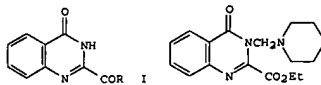
LANGUAGE: English

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

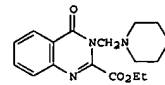
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RECORD. ALL CITATIONS AVAILABLE IN THE RE

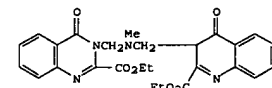
L3 ANSWER 4 OF 5 CASREACT COPYRIGHT 2007 ACS on STN (Continued)



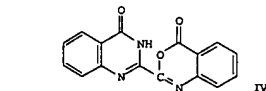
I



II



III



IV

AB 2-Ethoxycarbonyl-4(3H)-quinazolinone (I; R = OEt) reacts with piperidine, methylamine and anthranilic acid to give the Mannich bases, e.g. II and III, and 4H-3,1-benzoxazin-4-one deriva., e.g. IV. The behavior of the latter towards some nitrogen nucleophiles has been described. Compound

I (R = OEt) also reacts with hydrazine and gives the corresponding hydrazide (I; R = NHNH2), the behavior of which towards aldehydes, ketones, and Ph isocyanate has also been discussed.

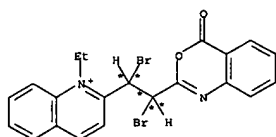
ACCESSION NUMBER: 120:217516 CASREACT
TITLE: Synthesis and reaction of 2-ethoxycarbonyl-4(3H)-quinazolinone with nitrogen nucleophiles
AUTHOR(S): Amine, M. S.; El-Haghaah, M. A.; Attia, I. A.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1993), 32B(5), 577-80

CODEN: IJSBDB; ISSN: 0376-4699

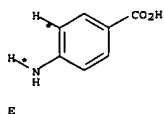
DOCUMENT TYPE: Journal
LANGUAGE: English

L3 ANSWER 5 OF 5 CASREACT COPYRIGHT 2007 ACS on STN

RX(2) OF 121 ...A + E ==> F

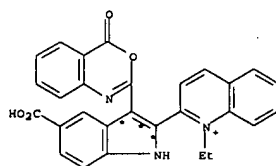


A



E

(2)

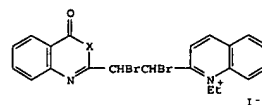
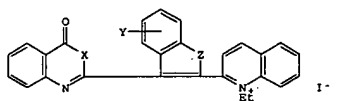


F

RX(2) RCT A 104968-06-1, E 150-13-0
 PRO F 104967-80-8
 SOL 64-17-5 EtOH

GI

L3 ANSWER 5 OF 5 CASREACT COPYRIGHT 2007 ACS on STN (Continued)



I- II

AB The title dyes I (X, Z = O, NH; Y = H, 5-Me, 5-MeO, 5-O2N, 5-Cl, 5-HO2C, 7-HO, 5,6-benzo, 6,7-benzo) were prepared by treatment of II (X = O, NH) with the appropriate phenols and/or arylamines. The new cyanines were identified by spectral determination. Bactericidal and fungicidal activity of selected cyanines were tested.

ACCESSION NUMBER: 105:174394 CASREACT
 TITLE: Synthesis, spectral behavior and biological activity of benzoxazonyl(quinoxalonyl)benzofurano(indolo)quinoline apocyanine dyes
 AUTHOR(S): Khalil, Z. H.; Koraïem, A. I. M.; El-Maghraby, M. A.; Abu-El-Hamd, R. M.
 CORPORATE SOURCE: Chem. Dep., Aswan Fac. Sci., Aswan, Egypt
 SOURCE: Journal of Chemical Technology and Biotechnology (1986), 36(8), 379-88
 CODEN: JCTBED; ISSN: 0268-2575
 DOCUMENT TYPE: Journal
 LANGUAGE: English